CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, November 9, 1905.

CONTENTS.

CONSTRUCTION NEWS:
Plans and Specifications on File 155
List of Contracts Pending 155
Railways 156
Electric Railways 156
Light and Power Plants 157
Bridges 157
Buildings 157
Water Supply and Irrigation 158
Sewerage 159
Garbage Disposal 159
Streets and Roads 159
Manufacturing Plants 160
Miscellaneous Contracts 160
U. S. Possessions and Cuba 161
Mexico 161
Foreign Contracts and Export News 161
Contract Prices 161
CIVIL SERVICE EXAMINATIONS 161
INDUSTRIAL NOTES 161
PROPOSALS 162

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Nov.				
*10	Elec. light plant	Warsaw, Mo.	S.	11- 2
11	Grading	Portsmouth, N. H.	S.	10-26
*15	Irrigation canals	Glendive, Mont.	P. & S.	9-28
18	Underground cable	Phila., Pa.	S.	10-26
*24	Dredging	Philadelphia, Pa.	S.	11-9
25	Drainage canals	N. Orleans, La.	S.	10-26
Dec.				
*2	Drill hall	Cheyenne, Wyo.	P. & S.	11-9
*5	Dam	Billings, Mont	P. & S.	9-14
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21

*Work advertised in Engineering News.

NOTE—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Nov. 10. Power house, etc, Danville, Pa. ..... Nov. 2
Advertised, Eng. News, Nov. 2 and 9.
Nov. 10. Electric light plant, Warsaw, Mo. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Dec. 16. Electric plant, Brazil ..... Nov. 9
Dec. 2. Lighting system, Ft. D. A. Russell, Wyo. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to 23.
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug 17 to Sept 14.

BRIDGES.

Nov. 9. Bridge, steel, Jefferson City, Mo. ..... Oct. 26
Nov. 9. Bridges, Ventura, Cal. ..... Oct. 26
Nov. 11. Bridge, Lancaster, O. ..... Oct. 26
Nov. 11. Bridges, Indianapolis, Ind. ..... Nov. 9
Nov. 15. Bridges, Reading, Pa. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 15. Flooring bridge, Springfield, Mass. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 15. Bridge, Urbana, Ill. ..... Nov. 9
Nov. 20. Bridge, Memphis, Tenn. ..... Oct. 26
Nov. 20. Bridge, Doylestown, Pa. ..... Nov. 2
Nov. 21. Bridges, St. Charles, Mo. ..... Nov. 9
Nov. 24. Drawbridge, Tacoma, Wash. ..... Nov. 9
Nov. 24. Bridge, Minneapolis, Minn. ..... Nov. 2
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28
Jan. 1. Bridge, steel, Pensacola, Fla. ..... Nov. 2
Jan. 23. Bridge, Belgium ..... Nov. 2

BUILDINGS.

Nov. 9. Court-house, Marion, Kan. ..... Oct. 12
Nov. 10. Building, New York, N. Y. ..... Nov. 2
Nov. 11. Building, St. Louis, Mo. ..... Nov. 2
Nov. 11. Dormitory, Convent Station, N. J. ..... Oct. 19
Nov. 13. Heating, lighting, etc., Elmira, N. Y. ..... Nov. 2
Advertised, Eng. News, Nov. 2 and 9.
Nov. 13. Schools, New York, N. Y. ..... Nov. 2
Nov. 13. Club-house, Philadelphia, Pa. ..... Nov. 9
Nov. 14. Post-office, Colorado Springs, Colo. ..... Sept. 21
Nov. 14. Drill hall, Ft. Des Moines, Ia. ..... Oct. 26
Nov. 15. Blacksmith shop, Tompkinsville, N. Y. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 15. Plumbing system, Burlington, Ia. ..... Oct. 19
Nov. 15. Jail, Homer, Ga. ..... Nov. 2
Nov. 15. Hotel, Florala, Ala. ..... Nov. 2
Nov. 15. College building, Jacksonville, Tex. ..... Nov. 9
Nov. 15. Synagogue, New York, N. Y. ..... Nov. 9
Nov. 16. Light fixtures, Ft. Washington, Md. ..... Nov. 9
Nov. 16. Light fixtures, Washington, D. C. ..... Nov. 9
Nov. 20. School, Danbury, Ia. ..... Oct. 26
Nov. 21. Buildings, Pipestone, Minn. ..... Nov. 2
Nov. 21. Jail, Linden, Ala. ..... Nov. 9
Nov. 22. Building, Gowanda, N. Y. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 22. High school, Ticonderoga, N. Y. ..... Nov. 9
Nov. 22. Heating, Evanston, Wyo. ..... Oct. 26
Nov. 25. Light fixtures, Washington, D. C. ..... Nov. 9
Nov. 27. Quarantine station, Mullet Key, Fla. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Hospital, etc., Pensacola, Fla. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Court-house, Enid, Okla. ..... Nov. 9
Nov. 28. Cells, Kansas City, Mo. ..... Oct. 26
Nov. 23. Hospital, New London, Conn. ..... Nov. 2
Nov. 29. Buildings, etc., Grand Junction, Colo. ..... Nov. 2
Nov. 29. Building, West Point, N. Y. ..... Oct. 19
Advertised, Eng. News, Oct. 19, 26 and Nov. 16 and 23.
Dec. 2. Buildings, Philadelphia, Pa. ..... Nov. 2
Dec. 2. Drill hall, Cheyenne, Wyo. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 7.
Dec. 7. School house, Laurel, Miss. ..... Nov. 9
Dec. 12. Capitol building, Bismarck, N. Dak. ..... Oct. 5
Dec. 14. School, Humboldt, Tenn. ..... Nov. 9

WATER SUPPLY AND IRRIGATION.

Nov. 9. Water mains, Fort Walla Walla, Wash. ..... Nov. 2
Nov. 10. Water system, Norfolk, Va. ..... Nov. 2
Nov. 10. Steel pipe, etc., Cincinnati, O. ..... Oct. 19
Nov. 11. Water-works, East Moline, Ill. ..... Oct. 19
Advertised, Eng. News, Oct. 19 to Nov. 9.
Nov. 11. Main extensions, etc., Fort Williams, Me. ..... Nov. 2
Nov. 15. Water-works, etc., Milledgeville, Ga. ..... Nov. 2
Nov. 15. Water-works, etc., Independence, Kan. ..... Oct. 26
Nov. 15. Irrigation canals, Glendive, Mont. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 15. Suction well, Perth Amboy, N. J. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 15. Boiler, Perth Amboy, N. J. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 15. Water mains, Downers Grove, Ill. ..... Nov. 9
Nov. 16. Water pipe, Providence, R. I. ..... Nov. 9
Advertised, Eng. News, Nov. 9.
Nov. 16. Water-works, Lebanon, Pa. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 20. Tank and tower, Woodland, Cal. ..... Nov. 9
Nov. 22. Boilers, pumps, etc., Phoenix, Ariz. ..... Nov. 2
Nov. 22. Water mains, New York, N. Y. ..... Nov. 2
Nov. 22. Main extensions, etc., Vancouver Barracks, Wash. ..... Nov. 2
Nov. 25. Concrete reservoir, Fort Miley, Cal. ..... Nov. 9
Nov. 27. Pipe and specials, Portland, Ore. ..... Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 27. Boilers, pumps, Fort Screven, Ga. ..... Nov. 9
Nov. 28. Pump house alterations, Fort Dupont, Del. ..... Nov. 9
Dec. 1. Water-works, Ballinger, Tex. ..... Nov. 9
Dec. 1. Water meters, Chicago, Ill. ..... Oct. 26
Dec. 5. Yellowstone dam, Billings, Mont. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Dec. 15. Irrigation canal, etc., Billings, Mont. ..... Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Dec. 20. Irrigation canal, San Francisco, Cal. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 28.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.

SEWERAGE.

Nov. 9. Brick conduit, Salt Lake City, Utah ..... Nov. 2
Nov. 9. Pipe sewers, Boise City, Idaho ..... Oct. 26
Advertised, Eng. News, Oct. 26 and No. 2.
Nov. 10. Sewers, Aberdeen, S. Dak. ..... Oct. 26
Nov. 13. Brick sewer, Lima, O. ..... Nov. 9
Nov. 13. Sewer system, Lake Preston, S. Dak. ..... Nov. 9
Nov. 15. Concrete sewer, Brooklyn, N. Y. ..... Nov. 9
Nov. 15. Sewers, Downers Grove, Ill. ..... Nov. 9
Nov. 16. Pipe sewers, Des Moines, Ia. ..... Nov. 9
Nov. 16. Pipe sewer, Des Moines, Ia. ..... Nov. 2
Nov. 20. Pipe sewer, Webb City, Mo. ..... Nov. 9
Nov. 23. Trunk sewer, Elyria, O. ..... Nov. 9
Nov. 24. Pipe sewers, Shreveport, La. ..... Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 30. Sewer system, Baton Rouge, La. ..... Oct. 26
Dec. 6. Intercepting sewer, Chicago, Ill. ..... Nov. 9
Dec. 11. Sewerage, Sheldon, Ia. ..... Oct. 12
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Nov. 10. Road, Cincinnati, O. ..... Oct. 19
Nov. 11. Paving, Cleveland, O. ..... Nov. 2
Nov. 13. Paving, Atlantic City, N. J. ..... Nov. 9
Nov. 14. Paving, Shreveport, La. ..... Nov. 9
Nov. 15. Paving, etc., Brooklyn, N. Y. ..... Nov. 9
Nov. 16. Paving, Des Moines, Ia. ..... Nov. 9
Nov. 20. Graveling, Webb City, Mo. ..... Nov. 2
Nov. 23. Paving, asphalt, Cincinnati, O. ..... Nov. 9
Nov. 25. Walks and curbs, New Orleans, La. ..... Oct. 26
Nov. 30. Paving, Baton Rouge, La. ..... Oct. 26
Nov. 30. Macadamizing, Delaware, O. ..... Nov. 9

MISCELLANEOUS CONTRACTS.

Nov 9. Wharf, etc., Havana, Cuba ..... July 27
Nov. 10. Wire, Washington, D. C. ..... Nov. 9
Nov. 11. Grading, Portsmouth, N. H. ..... Oct. 26
Nov. 11. Machinery, etc., Washington, D. C. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 11. Tile drain, Waggoner, Ill. ..... Nov. 2
Nov. 13. Fire alarm system, Sycamore, Ill. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 13. Pier, Balitmore, Md. ..... Nov. 9
Nov. 14. Machinery, Washington, D. C. ..... Nov. 2
Nov. 14. Fence, Fort Douglas, Utah ..... Nov. 2
Nov. 14. Boilers, New York, N. Y. ..... Nov. 2
Nov. 14. Pipe gallery, New York, N. Y. ..... Nov. 2
Nov. 15. Tower, Norristown, Pa. ..... Nov. 2
Advertised. Eng. News, Nov. 2.
Nov. 15. Flushing tunnel, Brooklyn, N. Y. ..... Nov. 9
Nov. 16. Shovels, axes, etc., Washington, D. C. ..... Oct. 26
Nov. 17. Ferry house, New York, N. Y. ..... Nov. 2
Nov. 18. Underground cable, Philadelphia, Pa. ..... Oct. 26
Nov. 20. Concrete wall, Chattanooga, Tenn. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 16.
Nov. 21. Drills, rails, etc., Washington, D. C. ..... Nov. 2
Nov. 21. Lumber, Washington, D. C. ..... Nov. 2
Nov. 22. Conduit materials, Baltimore, Md. ..... Nov. 9
Nov. 22. Dredging, New York, N. Y. ..... Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 24. Dredging, Philadelphia, Pa. ..... Nov. 9
Advertised, Eng. News, Nov. 9 and 16.
Nov. 25. Drainage canals, etc., New Orleans, La. ..... Oct. 26
Nov. 27. Dredging, etc., New Orleans, La. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to 30.
Nov. 27. Dredging, New York, N. Y. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to 30.
Nov. 27. Garbage crematory, Grand Rapids, Mich. ..... Nov. 9
Advertised, Eng. News, Nov. 9-23.
Nov. 28. Drills, Pipe, etc., Washington, D. C. ..... Oct. 26
Nov. 28. Fire alarm, Mare Island, Cal. ..... Oct. 19
Dec. 2. Concrete quay wall, Cuba ..... Oct. 19
Dec. 2. Concrete wall, Key West, Fla. ..... Oct. 19
Dec. 5. Machine tools, Washington, D. C. ..... Nov. 9
Dec. 2. Concrete wall, Key West, Fla. ..... Oct. 19
Dec. 12. Dam, Wheeling, W. Va. ..... Nov. 9
Advertised, Eng. News, Nov. 9 to Dec. 14.
Dec. 15. Telephone system, Billings, Mont. ..... Nov. 2
Advertised, Eng. News, Nov. 2 to Dec. 14.
Dec. 15. Railways, Philippines ..... Sept. 21
Dec. 27. Lock, dams, wall, Chicago, Ill. ..... Nov. 2
Advertised, Eng. News, Nov. 2.
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railway, Chile ..... Aug. 24
Advertised, Eng. News, Nov. 9 to Dec. 28.
Jan. 9. Wharf work, New Zealand ..... Nov. 2
May 1. Steel dock, Chile ..... Nov. 9

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, NIAGARA & TORONTO.—Incorporation will be asked for by a company, under this name, in Ontario, Canada, to build a railroad from Niagara-on-the-Lake through Niagara Township, St. Davids Village, Stamford, Willoughby and Bertie Townships to Fort Erie, with one branch from St. Davids to St. Catharines, and another from Fort Erie to Port Colburne and Welland.

BALTIMORE & OHIO.—It is reported that $7,000,000 will be spent on company's terminal at Louisville, Ky. D. D. Carothers is Ch. Engr., at Baltimore, Md.

CHICAGO, MILWAUKEE & ST. PAUL.—We are informed that an important extension is now under construction from Chamberlain to Rapid City, S. Dak., practically paralleling a similar extension of the Chicago & Northwestern Ry. from Pierre to Rapid City. An extension is also being built north from Armour to Plankinton, S. Dak., 25 miles. On the Chicago & Council Bluffs Division, grade reduction is in progress between Covington and Keystone, Ia., and between Defiance and Earling, Ia. D. J. Whittemore, Chicago, is Ch. Engr.

COLORADO SOUTHERN, NEW ORLEANS & PACIFIC.—The New Orleans Terminal Co., L. S. Berg, Pres., will build terminal at New Orleans, La., for the C. S., N. O. & P. Ry., it is reported.

COLORADO, OKLAHOMA & SOUTHWESTERN.— McCARTHY, STARNES & CO., of Lufkin, Tex., announce that they have engineering contract for this road, from Weatherford to Woodward, Okla., via Independence, Putnam, Lenora, Cestos, Mutual, Persimmon, Deweyville and Detroit, 90 miles, with a branch from Deweyville via Doris to Gage, Okla., 30 miles. P. A. McCarthy and J. P. Starnes, Civil Engineers, with Frank McCarthy, compose the firm. Company has also contracts for the following: Chicago, Weatherford & Brazos Valley, from Weatherford, Tex., to Bridgeport, Tex., 36 miles; Gulf & Northwestern, from Waco up the Bosque Valley via Meridian and Stephensville to the coal fields of Thurber and Strawn, 110 miles, with branches from Meridian via Glen Rose and Granbury to Weatherford, Tex., 60 miles, and from Meridian to Hamilton, Tex., 40 miles.

DUBUQUE, IOWA & WISCONSIN.—It is reported that J. M. McFadden, A. W. Tredway, F. J. Pickenbrock, J. E. Hedley, H. H. Blish and others, of Dubuque, Ia., have organized this company, which will build a railway from Dubuque to a point in Wisconsin.

GEORGIA.—We are advised that surveys are being made for a railroad from the Georgia R. R., at a point 26 miles from Atlanta, Ga., for the Collins Mountain Granite Co., 51 North Pryor St., Atlanta, Ga. Thos. J. Wesley, Sec'y and Treas., and W. J. Davis, are interested. Ransom Rogers, Empire Bldg., Atlanta, is Ch. Engr.

GULF, COLORADO & SANTA FE.—W. C. Nixon, Gen. Mgr., Galveston, Tex., has announced, according to a report, that the proposed line from Canyon City will be built to Plainview, Tex., but that construction to Brownwood is not to be undertaken yet. C. F. W. Felt is Ch. Engr., at Galveston.

INTERSTATE & GREAT WESTERN.—The name of this company has been changed to that of the Texas, New Mexico & Pacific Ry. Co. Railway will be built from McKinney, Tex., to Roswell, N. Mex. Offices are at McKinney. Jesse Shain is Pres.; J. P. Crouch, vice-Pres.; J. L. White, Sec'y and Treas.; M. J. Healy, Gen. Mgr.; J. L. Doggett is Gen. Atty.

ILLINOIS CENTRAL.—Company has under construction improvements in the vicinity of Mattoon, Ill., which will cost $500,000. What is known as Magnet hill, the highest point on the Illinois division, is to be cut down to the natural level south of that point, doing away with the grade. This work involves the construction of a subway, two miles long, through the city of Mattoon, to a point north of the corporation limits, where the tracks are free from grade. A union depot for the Illinois Central and the Cleveland, Cincinnati, Chicago & St. Louis roads will be erected on the site of the present structure at a cost of about $50,000. A. S. Baldwin, Chicago, is Ch. Engr.

KANSAS CITY, GALVESTON & MEXICO.—Charter was granted in Oklahoma on Oct. 24 to this company to build a railroad, having an estimated length of 2,500 miles, beginning at Kansas City, Mo., and terminating at Port Progresso, state of Yucatan, Mexico. The main line is to run south through Kansas, Indian Territory and Texas, touching Denison, Dallas, Waco, Austin and San Antonio, Tex., and Port Tampico, Vera Cruz and other important cities of Mexico. A branch line will start between Wagoner and Sapulpa, Ind. T., and run west through Lincoln, Payne and Logan Counties, in Oklahoma, to Guthrie. A second line runs west from Dallas to Fort Worth, and the third from Austin to Houston and Galveston. There will be also branches in Mexico. The capital stock is $10,000,000. The incorporators are G. V. Pattison, H. W. Pentecost, L. E. Pentecost, N. D. McGinley and L. E. Pentecost, all of Guthrie, Okla.

LEXINGTON & EASTERN.—Survey has been made for an extension from Jackson, Ky. J. R. Barr is Gen. Mgr. and Ch. Engr., at Lexington, Ky. Arthur Cary is Pres.

LOUISVILLE & NASHVILLE.—The line from Nashville to Franklin, Tenn., may be double-tracked. W. H. Courtenay is Ch. Engr., at Louisville, Ky.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—The company has completed the construction of last 340 miles of new line, commenced this year. This includes a line from Thief River Falls, on the new Winnipeg line (completed last spring), west to Kenmare, N. Dak., on the Pacific coast line, 300 miles, with a 21-mile branch from Egeland to Armandale, N. Dak. The line running north from Bismarck, N. Dak., was also extended about 20 miles., from Underwood to Garrison. Work was also begun on the improvement of alinement and grades between Minneapolis and Paynesville, Minn. E. Pennington is Gen. Mgr. and Thomas Green is Ch. Engr., both at Minneapolis, Minn.

MERCED CANYON.—This company has been incorporated in California to build a joint line in the interest of the Southern Pacific and the Atchison, Topeka & Santa Fe Rys. from Merced, following the general course of the Merced River, to a point in Mariposa County, within the boundaries of the Yosemite National Park. Surveys are being made. It is said the work of construction will be begun soon. Capital stock, $4,000,000. Incorporators: A. H. Payson, H. K. Gregory, of the A., T. & S. F.; I. W. Hellman, Jr., Pres. Union Trust Co.; E. E. Calvin, Gen. Mgr. Southern Pacific, and William F. Herrin, Ch. Counsel to S. P. Ry. Co., all of San Francisco.

NORTHERN CENTRAL.—Contract has been awarded to H. S. KERBAUGH & CO., it is reported, for building a double-track freight line around York, Pa., 20 miles. J. H. Nichol is Principal Asst. Engr., at Williamsport, Pa.

NORTH CAROLINA CONNECTING RY.—Co. has been chartered to build a line between Roxboro and Spring Hope, N. C., with extensions to Guilford, Vance, Warren, Franklin and Nash Counties. The authorized capital is $450,000; paid in capital is $20,000. The incorporators are D. W. Gunn, of Roanoke, Va.; T. T. Whittlesey and D. J. Nysewander, of Mobile, Ala.; R. H. Hood, of Henderson, N. C., and S. P. Douglass, of Toledo, O.

OPELOUSAS, GULF & NORTHEASTERN.—C. C. Genung, Supt. of Construction, at Opelousas, La., is quoted as saying that actual construction will begin November 10. Office is at Opelousas.

PORTLAND, NEHALEM & TILLAMOOK.—This project is to be abandoned and its franchise and rights turned over to the Pacific Railway & Navigation Co., which has been incorporated in Oregon by E. E. Lytle, of Portland, Ore., to build through the same territory. The Portland, Nehalem & Tillamook was projected from Portland, Ore., to Nehalem and Tillamook Bay. John McCracken, of Portland, was Pres. City of Hillsboro, Ore., has granted the P. R. & N. Co. the ten miles of right-of-way from Hillsboro to Banks, previously held by the P., N. & T. Ry. Co. Charles Wanzer, Portland, is Ch. Engr. General route as filed will be from Portland along the Willamette Valley to Oswego; thence westerly along the valley of the Tualatin River to Hillsboro or Forest Grove, in Washington County; thence in a northwesterly direction from either Hillsboro or Forest Grove to Astoria, following the valley of Dairy Creek, the Nehalem River and Lewis and Clark River, also from some point in Washington County to a point on Nehalem Bay, in Tillamook County, passing through Tillamook, following the valley of Gales Creek and Wilson River; thence in a northerly direction along the shores of Tillamook Bay and following the valleys of Miami and Foley creeks to Nehalem City; thence in a northeasterly direction along the valleys of the north fork of the Nehalem River and of Humbug Creek to a junction with the line to Astoria near the junction of Humbug Creek and the Nehalem River; also from a point near Pittsburg to Astoria, following in a southwesterly direction the most practicable route to a connection with the Northern Pacific Co's line down the Columbia River near Scappoose. Capital stock, $2,000,000.

PINE MOUNTAIN RAILROAD.—Company has been incorporated in Kentucky to build a branch of the Louisville & Nashville from a point two miles south of Williamsburg, up the Cumberland River to a point on the Cumberland Valley division of the L. & N., north of Pineville, a distance of 40 miles. Capital stock, $10,000. Incorporators: M. H. Smith, W. L. Mapother and W. W. Thompson, of Louisville, Ky.

PINE BLUFF NORTH & SOUTH.—Z. Orto, Pres., Pine Bluff, Ark., states that engineering party will begin survey at once. C. C. Buchannan is Engr.

PAULS VALLEY.—We are informed that 30 miles have been permanently located. The line will be 180 miles long, extending from Ada, Ind. T., to Pauls Valley, Ind. T., and Wichita Falls, Tex. 75 acres have been acquired at Pauls Valley for round house, machine shops, switching grounds, etc. It is expected that contracts for ten miles of railway will be let by January 1, 1904. N. C. Amendt, Pauls Valley, Ind. T., is Pres.; M. P. Paret, Kansas City, Mo., is Ch. Engr.; Albert Rennie, Pauls Valley, is Secy.

PENNSYLVANIA R. R.—Company will elevate its tracks 20 feet on the Kensington branch, in Philadelphia. Estimated cost is $1,500,000. City will pay one-half of cost. William H. Brown, Philadelphia, is Ch. Engr.

QUEBEC SOUTHERN.—Bids were received at Montreal, on Nov. 3, for South Shore Railroad, which comprises the South Shore Railway, the Eastern Richelieu Valley and United Counties. The tenders were as follows: P. H. Ray, representing a syndicate, offered $150,000 for the Eastern Richelieu Valley section alone, and E. A. D. Morgan offered $503,000 for the South Shore proper. George Foster, on behalf of another syndicate, bid $1,051,000 for the entire line, or $551,000 for the United Counties and Eastern Richelieu sections.

RICHMOND, RAPPAHANNOCK & EASTERN.—This railway has been sold to the Hilands-Gillison Co., of Philadelphia. It is 60 miles long. R. V. Hilands will be Pres., and Benjamin F. White Secy. and Treas. Work on the unfinished portions of the road will be started soon.

SOUTHERN.—The annual report lists the following new construction: (1) A branch from Jasper and French Lick, Ind., 24 miles. (2) A new cut-off line, 3¼ miles long, at Birmingham, Ala. (3) An extension from Stevenson, Ala., to Chattanooga, Tenn., 42 miles. (4) Branches of the Delta Southern line. (5) An extension from Vardaman to Derma, Miss., 8¼ miles. (6) A new line from Maryville, Tenn., to Bushnell, N. C., 68 miles. (7) The Cumberland line from the Louisville & Nashville Ry., in Campbell County, Tenn., to the head of Clear Fork Creek in Kentucky, 14 miles. Double tracking and the revision of grades and curves are in progress as follows: Peyton to Austell, Ga., 11¼ miles; Danville, Va., to Pelham, N. C., 7¾ miles; Pomona to High Point, N. C., 12 miles; Armour to Howell, Ga., 3½ miles.

ST. LOUIS SOUTH WESTERN.—F. H. Britton, Pres., recently announced to Waco, (Tex.), Business Men's Club that the St. Louis Southwestern Ry. is considering the proposed extension from Gatesville to Hamilton, Tex., about 30 miles. M. L. Lynch is Ch. Engr., at Tyler, Tex.

TEXAS CENTRAL.—Charles Hamilton, Gen. Mgr., Waco, Tex., has stated that an extension will be built from Stamford, Tex., for distance of 35 miles. C. H. Sharman is Engr.-in-Charge, at Waco.

TIDEWATER RY.—We are informed that this railway, which will be 332 miles long, is an extension of the Deepwater Ry. across Virginia. It is now under construction from Sewall's Point for 103 miles. Line is located and large amount of right-of-way is obtained. Bids were received on Nov. 1 for building remainder of railroad, 219 miles. Contractors for line now under construction are MACARTHUR BROS. CO., Chicago; A. and C. WRIGHT; BATES & ROGERS CONSTRUCTION CO., and SANDS & OLIVER, of Norfolk, Va. The proposed route is from Sewall's Point, the Norfolk terminal, to Suffolk, Jarratt, Brookneal, Roanoke and Glenlyn. William N. Page, Ansted, W. Va., is Pres., and H. Fernstrom, Norfolk, Va., is Ch. Engr.

UNIONTOWN & WHEELING SHORT LINE.—Incorporation will be applied for by this company to build a railroad from Uniontown, Pa., to Wheeling and Benwood, W. Va., 68 miles. The company has absorbed the following companies: The Lechrone & Little Whitely, incorporated under the laws of Pennsylvania, February 16, 1905; the Midland Railroad, incorporated under the laws of Pennsylvania, February 24, 1905; the Waynesburg & Monongahela Railroad, and the Ohio & Marshall County Railroad, incorporated under the laws of West Virginia, April 13, 1905. Surveys have been completed and final estimates made. It is reported that construction will begin before January 1. The route is from Uniontown, via Ache Junction, to Lechrone; thence to the Monongahela River at McCanns Ferry; thence following the Little Whitely Creek, Muddy Creek and south fork to Waynesburg; thence to Rogersville and Rutan, crossing the divide to the headwaters of the north fork of Wheeling Creek, following this stream through Durbin and Crows Mills, Greene County, at the Pennsylvania and West Virginia state line; thence along Big Wheeling Creek through Viola, Marshall County, W. Va., and Elm Grove, Ohio County, W. Va., into Wheeling and Benwood. J. V. Thompson, of Uniontown, Pa., is Chn. of Board of Directors, and D. F. Maroney, of Pittsburg, is Pres.

WISCONSIN CENTRAL.—An extension will be built from Ladysmith, Wis., to Superior and Duluth, Minn., 112 miles. A branch line from Owen to Ladysmith, which will be opened in January, is being constructed by the Owen & Northern Railway Co., and the line from Ladysmith to Duluth will be built by the Lake Superior & Southeastern Railroad Co. The entire capital stock of both of these companies is owned by the Wisconsin Central, which has undertaken to furnish the funds necessary for building and equipping the projected lines, to obtain which funds it has created an issue of $5,000,000 five-year 4½ per cent. gold notes, the collateral for which will be the securities of the two subsidiary companies. Charles N. Kalk is Ch. Engr., at Milwaukee, Wis.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The Railroad Commissioners have received a petition from the Eastern Traction Co., of Bangor, asking for their approval of the location, courses, distances and boundaries of proposed street railway tracks through the City of Bangor and the towns of Hermon, Levant, Stetson, Exeter, Garland and Dexter. The petition is accompanied by the engineer's estimate of the cost of construction of the road, and the approval of the municipal officers of the different towns through which the proposed roads will be constructed.

WATERVILLE, ME.—The Waterville & Oakland St. Ry. Co. may build an extension from Waterville to Augusta, Me., 25 miles. Amos F. Gerald is Gen. Mgr.

HARTFORD, CONN.—A corps of engineers is running preliminary survey for the Hartford & Middletown Street Ry. between those two cities.

NORWICH, CONN.—The Railroad Commissioners have issued an order approving the method of construction of the line which the Consolidated Railway Co., of Hartford, plans to build from Norwich to Jewett City.

ILION, N. Y.—We are informed that survey is completed and right-of-way nearly all obtained for the Ilion & Sidney R. R. It will be 60 miles long and extend from Ilion to Sidney, by way of Cedarville, Winfield, West Exeter, Burlington Flats and Morris. Stock is being sold for its construction. It is expected to have funds secured soon, when organization will be perfected. Contracts will not be awarded until next spring. D. D. McKoon, of Ilion, is the promoter of the railroad. W. G. Stone, Mann Bldg., Utica, N. Y., is Engr.

BROOKLYN, N. Y.—Charles Cranford, 38 Court St., was lowest bidder, at $500,000 for abolition of grade crossings on Brighton Beach R. R. improvement, noted in full on Oct. 26. Eleven bids were received.

LYONS, N. Y.—Plan [illegible] railway from Lyons to [illegible] promoted by James [illegible] Treas.; Charles H. Bet[illegible] and others, of Lyons.

ROCHESTER, N. Y.—[illegible]ester Traction Co., which [illegible] an electric railway to Ro[illegible] will have a hearing on [illegible] franchise before the State [illegible]sion on Dec. 5. The road [illegible] private right-of-way exc[illegible] will touch Batavia, Le R[illegible] will enter Rochester over [illegible] lines of the Rochester R[illegible] fully on Oct. 19.

NEWCASTLE, PA.—Th[illegible] traction and lighting comp[illegible] town, O., and Sharon and [illegible] will be followed by impr[illegible] $3,000,000 made by the new [illegible] ported. Randall Montgom[illegible] Youngstown.

NASHVILLE, TENN.—J. [illegible] and Gen. Mgr., Nashville & [illegible] Steger Bldg., informs us th[illegible] & Huntsville R. R. Co. w[illegible] receive bids in the next 30 d[illegible] division, from Nashville, T[illegible] ville, Ala. The maximum gr[illegible] and the heaviest curvature w[illegible] 6°. There is considerable co[illegible] on this line of road and some [illegible] are 100 miles of road bed [illegible] specifications will be ready [illegible] tractors to submit their bid[illegible] struction work of grading, [illegible] track ballasting. The steel [illegible] work will be let separately. [illegible] has been secured along the entire [illegible] railway will connect with six tra[illegible] ready in operation. Company [illegible] ing the third division of th[illegible] Opelika to Anderson, Ala. This [illegible] projected, will extend from Nash[illegible] to Pensacola, Fla., and compa[illegible] plans to complete it and have it in operation in 1907.

COLUMBUS, O.—The Columbus, Delaware & Marion Electric Ry. Co. will build an extension from Marion to Bucyrus, O. John G. Webb, Springfield, O., is Pres.; James Williams, Delaware, O., is Ch. Engr. Company now operates 75 miles of lines.

JEFFERSONVILLE, IND. — George H. Voigt and George H. Holzbog, of Jeffersonville, are interested in plan to build an electric railway from this city to Charlestown, Ind.

GRAND RAPIDS, MICH.—E. M. Hopkins, of Detroit; Frank Westcott, of Owosso; John T. Rich, of Detroit, and J. H. Radford, of New York, inspected the proposed line of the Grand Rapids & Ionia Electric Ry. between Grand Rapids and Cascade recently. Construction plans may be undertaken soon.

BATTLE CREEK, MICH.—The Battle Creek & Southeastern Ry. Co. has been incorporated in Michigan, with a capital stock of $500,000, to build a railroad from Battle Creek, Mich., south to Coldwater, a distance of about 30 miles, to be operated by any motive power other than steam. The general office of the company will be at Battle Creek. The directors are: William E. Ware, Edward F. Pangburn, of Battle Creek; Howard H. Zigler, Martin E. Murphy and Charles E. Miles, of Columbus, O.

SHEBOYGAN, WIS.—John M. Saeman, of Sheboygan, who is promoting the proposed Milwaukee-Northern Electric Ry. from Milwaukee by way of Thiensville, Cedarburg and Port Washington, from which point it will parallel the Chicago & Northwestern to Sheboygan, has stated that it is the intention of the company to build the line ultimately to Fond du Lac, and that its next step will be to obtain another franchise in Sheboygan. Capital stock is $100,000.

AMES, IA.—An electric railway will be built to Iowa State College. It is probable that the motive power of the Ames & College Ry. will be changed from steam to gasoline or electricity. M. K. Smith is Gen. Mgr., at Ames.

ST. LOUIS, MO.—Robert L. McLaren, Edward Gorman, Russell A. Richardson, Stephen H. Sexton and R. L. Johnson have applied to the St. Louis County Court, asking for a franchise to build and operate an electric railway from Wellston to Florissant. The promoters ask permission to connect with either the United Railways Co. or the St. Louis & Suburban wherever they intersect, and to make by private contract any traffic arrangement possible, and also to run cars over their tracks.

MIAMI, MO.—Right-of-way is being secured for the Central Ry. of Missouri between Miami and Sedalia. Ernest D. Martin, of Marshall, Mo., is Gen. Mgr.

KANSAS CITY, MO.—Subscriptions are being taken for stock of the Missouri Valley Electric Ry. Co. It will be built from Kansas City to St. Joseph, Mo., via Atchison and Leavenworth, Kan. Capital will be $1,500,000. Warren S. Bicknell and L. W. Prior, of Cleveland, are interested. A bridge will be constructed by the company over the Missouri River at Kansas City. The total length will be 95 miles.

SEATTLE, WASH.—An electric railroad is being projected by the Silver Lake Syndicate, Salisbury House, E. C., London, England, between Seattle and Everett, Wash. It is estimated that cost will be $1,500,000. The title of the line will be the Seattle, Everett & Skagit Ry. Co. The officers are: W. H. Goldson, Pres.; W. Lair Hill, vice-Pres.; Edwin S. Gill, Secy.; Otto Stendahl, Treas.; P. J. Farley, W. P. Morrison and J. H. Wortham are directors, all of Seattle. L. M. RICE, of Seattle, has general sub-contract.

VANCOUVER, WASH.—The Vancouver & Suburban Railway Co., which was incorporated with a capital stock of $2,500,000, by W. H. C. Sugg and his associates, for the purpose of constructing electric railway lines in and around Vancouver, Wash., will begin surveys at once, it is reported, with W. W. Goodrich as Engr.-in-Charge. City Council of Vancouver is considering the company's application for a franchise. According to Forbes & Goudy, of Portland, Ore., the com-

pany's attorneys, construction work will be commenced on the completion of the surveys.

OREGON CITY, ORE.—W. P. Hawley, of Oregon City, is interested in project to build an electric railway from Portland to Roseburg. The first section, from Portland to Salem, will run along Wilamette valley to a point between Hubbard and Aurora, bridging the river at a point on the east side, thence to Eugene, and south by a route to be determined, to Roseburg. This road will extend from Ogden to Coos Bay, on the coast. W. P. Hawley owns 30 miles of water rights on the Santiam River, and it is understood that power generated on this river will operate a large section of the proposed road.

SAN DIEGO, CAL.—We are informed that construction of the South Park & East Side Ry. is well under way. Motive power will be gasoline. The BARTLETT ESTATE CO., Box B, San Diego, is general contractor. CHARLES STEFFGEN, of San Diego, has contract for building bridges. E. Bartlett Webster, Bellingham, Wash., is Pres.; M. L. Wyneken, San Diego, is Ch. Engr. The railway will be two miles long.

VALLEJO, CAL.—We are advised that the Vallejo, Benicia & Napa Valley Ry. Co. will build a 27-mile extension from St. Helena to Calistoga. Sixteen miles are now in operation from Vallejo to Napa. M. K. Miller is Chf. Engr., at Vallejo.

LODI, CAL.—The California Traction Co., through its local representative, Attorney DeWitt Clury, has made application to the Board of Supervisors for a franchise allowing them to construct an electric trolley line from Stockton to Lodi, with the privilege of touching at way points. The matter will come up later for consideration.

WELLS, NEV.—It is announced that the Ohio Lead Mining & Smelting Co., at Spruce Mount., Nev., will build an electric railway to Wells, 25 miles. George L. Moats is Gen. Mgr., at Wells.

OGDEN, UTAH.—Weber County Board of Commssioners has granted a franchise to J. F. McCarron to build an electric railroad within limits of Weber County.

ST. CATHERINES, ONT.—Collier & Burson, Solicitors, of St. Catehrines, have given notice of an application for incorporation of a company, to be called the Buffalo, Niagara & Toronto Electric Railway Co., to build and operate a railway from a point on the Niagara River, at Niagara, southerly through the township of Niagara, near St. David's, and the townships of Stamford, Willoughby and Bertie, in the county of Welland, to a point on the international boundary, near Fort Erie; and from a point near St. Davids to St. Catherines; and from a point on the main line through the townships of Humberstone and Bertie to the village of Port Colbourne, and from the main line to Welland.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

RIDGEFIELD, CONN.—The Ridgefield Electric Co. has purchased a site for its proposed buildings. It is planned to have the electric-light plant in operation about May 15, 1906.

GOSHEN, N. Y.—The Goshen Illuminating Co. has been incorporated to succeed the Goshen Gas & Fuel Co. James Gamble and W. H. Dixon, of New York City, and J. R. Johnston, of Brooklyn, are directors.

LITTLE FALLS, N. Y.—Guy R. Beardslee, of East Creek, N. Y., has applied for a franchise for the East Creek Electric Light & Power Co. If granted the franchise power will be developed at Inghams Mills.

WEBSTER, N. Y.—J. K. Rush, of Canandaigua, N. Y., who has been granted a franchise, will install an acetelyne gas plant here.

WATKINS, N. Y.—The Watkins Consolidated Gas & Electric Light Co., which went into the hands of a receiver last spring, has just been reincorporated and will hereafter be known as the Watkins Illuminating & Power Co. The incorporators and chief stockholders are M. L. Driesbach, of Philadelphia, and M. H. Horn, of Jersey City. The capital stock is $50,000. It is the intention of the new company to rebuild and enlarge the old gas plant. E. L. Murray is Local Supt.

PERTH AMBOY, N. J.—We are informed that site for a plant for the Citizens' Electric Light & Power Co. has been decided upon, but that plans and specifications are not ready yet. Runyon & Carey, 122 Market St., Newark, are Engrs.

NEWARK, N. J.—Municipal ownership of the electric lighting plant is under consideration. Runyon & Carey, 122 Market St., Newark, have been commissioned as Engrs.

BALTIMORE, MD.—The Sonneborn Realty Co., 8-12 South Entaw St., has awarded contract to HENRY S. DIPPEL, 7 Clay St., Baltimore, for the construction of powerhouse on King St. Cost, about $35,000. Simonson & Pietsch, Archs., American Bldg., Baltimore.

Contracts for the erection of the group of buildings at Claremount, near the Union Stock Yards, by the Greenwald Packing Company has been awarded to RICHMOND H. FORD & CO. The structures, which consist of killing-house, smokehouse, powerhouse, pens, etc., will cost, it is estimated, about $300,000.

NORFOLK, VA.—R. B. Fentress, who has applied for a franchise for an independent electric lighting plant, has stated that $100,000 will be spent on the plant if favorable consideration is given to his application. Another application will be made for a franchise by J. Edward Cole, representing Philadelphia interests.

YORKVILLE, N. C.—Town will vote on Nov. 10 on the issuance of $7,500 of bonds for the installation of electric light plant and extending and enlarging water works. J. H. Lowery is Mayor.

ROCKMART, GA.—City will vote on the issuance of $6,000 of bonds for the construction of an electric light and power plant. M. P. Lane is Mayor.

COLUMBUS, GA.—The Westinghouse Electric & Mfg. Co., 111 Broadway, New York, will prepare plans for a municipal lighting plant here, according to local newspapers.

STARKVILLE, MISS.—George McIngrall is reported to be the Engr.-in-Charge of proposed electric light plant improvements. Est. cost, $8,000.

LAWRENCEVILLE, TENN.—Town has voted affirmatively the $25,000 bond issue for the construction of water works and electric light plant.

PADUCAH, KY.—The Paducah Light & Power Co. has been chartered, with $450,000 capital stock. John S. Bleecker, E. R. Adams and W. I. Sturtevant, of Paducah, are incorporators.

NEWPORT, KY.—The Municipal Light, Power & Fuel Co. has been incorporated with a capital of $200,000. The company has a franchise to supply gas to Newport. Incorporators are Harvey Myers, Jas. H. Young and B. Bramlage. Noted on July 29.

TOLEDO, O.—The Toledo Railways & Light Co. will build a large addition to its power house next spring. L. E. Bellstedt is Gen. Mgr.

HAMILTON, O.—F. J. J. Sloat, Mgr. of the Cincinnati Northern Traction Co., has announced that bids for the construction of the new $600,000 power plant, to be erected here, were received on November 7. The plant will have a capacity of 7,500 HP.

BELLEFONTAINE, O. — Appropriations were made by Council recently for a new municipal electric light plant, to cost $50,000, and for a new fire station, to cost $5,000. Bonds have been issued for both purposes.

EVANSVILLE, IND.—The Evansville Gas & Electric Light Co. will receive bids for the erection of additions to its plant and also for new equipment. W. B. McDonald is Mgr.

GENEVA, IND.—Council has granted a franchise to W. R. Thurston, of Berne, Ind., to build an electric light plant in Geneva.

GRAND RAPIDS, MICH.—The Board of Public Works has awarded contract for municipal lighting plant equipment to the FORT WAYNE ELECTRIC CO., of Ft. Wayne, Ind., at $3,554.

LOCKPORT, ILL.—We are informed that contracts were awarded as follows by the Sanitary District of Chicago, Isham Randolph, Ch. Engr., for electrical apparatus and materials in the power house near Lockport, and for transmission line along right-of-way of the Sanitary District to Chicago: (A) Switchboards, transformers, etc., to GENERAL ELECTRIC CO., of Chicago, at $3,639; (B) transfer boards, circuit breakers, switches, etc., to ARTHUR FRANTZEN CO., Chicago, at $13,836; (C) rheostats, to STANLEY G. I. ELECTRIC MFG. CO., Pittsfield, Mass., at $1,515; (D) busbar compartments, etc., to ARTHUR FRANTZEN CO., at $8,629; (E) conduit, generator, connections, etc., to BRENNAN ELECTRIC CONSTRUCTION CO., Chicago, at $6,286; (F) transformers, etc., to GENERAL ELECTRIC CO., Chicago, at $74,888. Contract G—for transmission line towers, poles and double cross arms; and contract H—for erecting and setting towers or poles, were not awarded pending tests. Contract I, for 180 miles aluminum conductors, to WESTERN ELECTRIC CO., Chicago, at $76,140; (K) for 4,000 insulators, to PORTER & BERG, Chicago, at $5,920; (L) for electric crane, WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill., at $5,800. The Brennan Construction Co. was lowest bidder on contract J. for erecting cable, at $4,358.

DULUTH, MINN.—We are informed that plans for transmission line for the Great Northern Power Co., from Duluth to St. Paul, have not yet matured. No contracts for this work are likely to be let for some time. F. A. Cokefair is Ch. Engr., Providence Bldg., Duluth.

BOWLING GREEN, MO.—The Pike County Light & Power Co., capital $7,000, has been chartered by Noah H. Ledford, Annie D. Ledford, Sam Sparrow and Isham C. Dempsey.

FORT SMITH, ARK.—John W. Howell, Joseph G. Branch and associates, of St. Louis, Mo., have applied for franchise to construct and operate an electric light plant.

DUBLIN, TEX.—The Dublin Gas & Electric Co., of Dublin, capital, $50,000, has been chartered here, by J. F. Strickland, Oscar Goodwin, of Dallas; M. B. Templeton, of Waxahachie; R. B. Stichter, of Sherman; J. R. St. Clair, of Dublin.

WOODWARD, OKLA.—We are informed that the Woodward Cotton Co. will install an electric light system. John Raynor may be addressed. The O'Neil Engineering Co., of Dallas, Tex., is Engr.

GOTEBO, OKLA.—The Gotebo Gas Co. has been chartered, with $5,000 capital. Incorporators are John M. Kirkwood, M. F. Pierce and J. G. Hill.

WALLA WALLA, WASH.—For the purpose of carrying on numerous improvements and a number of new schemes that have been planned, the Northwestern Gas & Electric Co., of Walla Walla, has called a special meeting of the stockholders of the company for the purpose of voting on the proposition of increasing the capital stock from $500,000 to $1,000,000.

ROSEBURG, ORE.—It is reported that James Lindsy and J. G. Kelley, of Portland; A. E. Ozouf, of Scottsburg, and T. P. Maupin, of Kellogg, are interested in the construction of the Umpqua River power tunnel. A 30-foot dam, headgate and penstock will be built on T. P. Maupin's farm. It is estimated the construction work will cost $100,000 or $300,000. The power plant at the mouth of the tunnel will furnish power for a large paper mill, and power for other purposes may be transmitted to Elkton.

FORT BRAGG, CAL.—The Fort Bragg Electric Co. has applied to the Trustees for a franchise to erect poles and string wires, etc., for conducting electricity for heat, power and light along streets in Fort Bragg. Bids for franchise will be received until 8 p. m., Dec. 4th. S. J. Zerbe is City Clerk.

WHITEROCKS, UTAH.—The Blue Bench Co-operative Water Co., of Blue Bench, Uintah Reservation, has applied for water rights on Rock Creek. Company proposes to construct a channel six miles long and to convey the water diverted from Rock Creek to the power plant. Irwin E. Pratt is Secy. Water Co.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids were received Nov. 2 for steel superstructure of Brookline St. bridge, as follows: Oswego Bridge Co., $18,250; Groton Bridge Co., $17,990; New Jersey Bridge Co., $17,683; The Canton Bridge Co., $17,550; American Bridge Co., $17,500; Berlin Const. Co., $17,453; Eastern Bridge Structural Co., $17,242; Frederick W. Sage, $17,149; Boston Bridge Works, Inc., $16,580; Pennsylvania Steel Co., $16,400; N. E. Structural Co., $16,154; H. P. CONVERSE & CO., 120 Milk St., Boston, $15,400 (awarded contract).

SPRINGFIELD, MASS.—Bids are asked by County Commissioners, Robert O. Morris, Clk., until noon, Nov. 15, for material and laying wooden floor system upon bridge over Connecticut River, between Chicopee and West Springfield. George F. Swain, Consult. Engr. (Advertised, Engineering News.)

CAMBRIDGE, MASS.—The following bids were received Nov. 1 for furnishing and placing filling and ballast at the approach to Brookline St. bridge: Wm. H. Ellis, $19,330; Wm. L. Miller, $17,930; T. H. Gill & Co., $15,520; WM. B. MULLEN, 95 Milk St., Boston, $10,078 (awarded contract).

NEW YORK, N. Y.—The Board of Aldermen has voted for the issue of corporate stock to the amount of $500,000 for the Manhattan terminal of the Williamsburg bridge.

LANCASTER, PA.—The County Commissioners opened bids Oct. 30 for the erection of a bridge over Big Beaver Creek, near Refton. Following were the bids received: Masonry, James Miller, $2,550; Chas. Binkele, $2,475; superstructure, Old Dominion Bridge & Const. Co., $1,295; Nelson & Buchanan Co., $1,082; King Bridge Co., $1,180; Oswego Bridge Co., $1,200; Eyre Const. Co., $1,047; Canton Bridge Co., $1,150; Climax Road Machinery Co., $1,175; North Penn Iron Co., $1,747. The masonry contract was awarded to CHAS. BINKELE, and the EYRE CONST. CO. secured the contract for superstructure.

READING, PA.—Bids are asked until 10 a. m., Nov. 15, for construction of three county bridges. H. F. Livingwood, County Controller. (Advertised, Engineering News.)

ELKTON, MD.—The County Commissioners have authorized the building of a new bridge over Millers Run, in the third district.

WILMINGTON, DEL.—A project for another bridge across the Brandywine is being considered by the Board of Water Commissioners.

ALEXANDER, W. VA.—The Borough Council has let contract for rebuilding of stone bridge on the National Road to SCOTT McCREGOR.

ELIZABETH, W. VA.—T. A. Brown, of Elizabeth, states that the West Fork Bridge Co. has been organized to construct a bridge across West Fork River near its mouth, connecting West Fork and Creston.

MORGAN CITY, LA.—Traffic Manager Thornwell Fay, of the Southern Pacific Railroad, states that it has been finally determined to build a concrete and steel bridge across the Atchafalaya River at Morgan City, the structure to cost approximately $[illegible]000. There will be six permanent spans and one draw span, the total length of the bridge to be 1,700 ft.

HENDERSON, KY.—The Illinois Central Ry. Co. is having surveys made for the construction of a bridge across the Ohio River at Henderson. A. S. Baldwin, of Chicago, Ill., is Ch. Engr.

URBANA, O.—County Commissioners are considering the erection of two bridges.

CINCINNATI, O.—The city has secured all the land, excepting one lot, which is needed for the approaches to proposed Harrison Ave. viaduct. J. E. Breen is Cy. Engr.

KNOX, IND.—All bids were rejected for repairs to iron bridge over Yellow River, in Center Township. Lee M. Ransbottom, County Audr.

NEWPORT, IND.—The County Commissioners have awarded the contracts for building the Osborn and Dinsmore bridges to THATCHER A. PARKER, of Terre Haute. Total cost, $3,391.

INDIANAPOLIS, IND.—Bids are asked by County Commissioners until 10 a. m., Nov. 11, for construction of a bridge over canal, at Broad Ripple, Washington Township. Also for a bridge over Fall Creek, on 13th St., Indianapolis. Cyrus J. Clark, County Audr.

DETROIT, MICH.—The Common Council has granted a franchise to the Globe Tobacco Co., W. R. Hamper, Secy., 21 Fort St. E., to erect a steel bridge across street to connect its factory and warehouse, under the supervision of the department of public works. J. J. Haarer, Comr.

URBANA, ILL.—We are informed that bids will be received until 2 p. m., Nov. 15, for construction of substructure and superstructure of 140-ft. highway bridge on concrete. Plans and specifications may be seen at office of County Clerk. Ira O. Barker, Engr., Champaign, Ill.

LA CROSSE, WIS.—It is stated that Frank C. Powell, Cy. Engr., is preparing plans for a steel viaduct on Rose St., over the railroad tracks.

MILWAUKEE, WIS.—Mayor Rose has vetoed the resolution passed by Common Council calling upon the Milwaukee Road to build the Sixth St. viaduct.

MILWAUKEE, WIS.—The Board of Public Works has awarded the contract for building Section 3 of the Washington Ave. viaduct to B. E. SIVYER, his bid, $5,287, being the lowest, according to law. The Milwaukee Sidewalk Co. bid $4,793, but the offer was rejected as informal.

DUBUQUE, IA.—Board of Aldermen has adopted the ordinance for the construction of a new viaduct on Peru Road. Jas. H. Boyce is Cy. Engr.

BROOKSTON, MINN.—The question of constructing a new bridge at Third St. is being agitated. J. E. Carroll is Cy. Engr.

WICHITA, KAN.—County Commissioners have let the contract for building three bridges to the WICHITA CONSTRUCTION CO., for a total of $3,650.

KANSAS CITY, MO.—The Kansas City Belt Ry. Co. has submitted to E. A. Harper, Cy. Engr., plans for Broadway viaduct.

KANSAS CITY, MO.—R. C. Barnett, Engr., Kansas City Life Bldg., is preparing preliminary plans for a reinforced concrete bridge for the Park Board, W. H. Tunn, Supt., City Hall. Cost, $70,000.

ST CHARLES, MO.—Alfred Riske, County Bridge Commissioner, writes us that bids will be received until 2 p. m., Nov. 21, for repairing and raising one 130 ft. span and one 90 ft. span iron bridges, that were torn from their stone abutments during recent heavy rains.

AGENTA, ARK.—The Board Public Affairs has advertised for bids on viaduct to cross Fort Smith Crossing, from Eighth to Thirteenth Sts. Cost, $27,500.

TACOMA, WASH.—We are informed that bids will be received by County Commissioners until 11 a. m., Nov. 24, for piling and trestling a portion of Lincoln Ave., and erection of a drawbridge across Hylebos Creek, near Tacoma.

REDLANDS, CAL.—A petition has been received by City Council asking that a bridge be erected at Ninth St. C. C. Brown, Cy. Engr., was instructed to prepare plans and specifications for such a bridge.

LOS ANGELES, CAL.—The Bridge and Sewer Committees of the City Council have conferred in regard to recommending an issue of bonds to the amount of $350,000, for completing the internal sewer system and constructing three bridges over Los Angeles River at Buena Vista St. Several legal questions are involved and if these are settled favorably the bonds will probably be recommended and joint structures for city and railroads provided for. Harry F. Stafford is Cy. Engr.

PALO ALTO, CAL.—At a joint meeting of the San Mateo and Santa Clara County Supervisors, held Oct. 23, it was decided to build a stone bridge across San Francisquito Creek, in San Mateo County, and at Pope St., in Palo Alto, to cost about $4,000. One-third of the cost will be defrayed by San Mateo County, one-third by Santa Clara County, and the remaining third by the town and citizens of Palo Alto.

SAN FRANCISCO, CAL.—It is stated that the Board of Supervisors has awarded to HEALY, TIBBITTS & CO., 22 Market St., San Francisco, the contract for constructing stone bridge at Mt. Vernon Ave., for $160,000. Address Ald. Fry, Winnipeg.

WINNIPEG, MAN.—The City Council of this place and St. Boniface will jointly build a bridge over the Red River, at a cost of $11,156.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

GOWANDA, N. Y.—Bids are asked by State Commission in Lunacy, T. E. McGarr, Secy., Albany, N. Y., until 3 p. m., Nov. 22, for construction, heating, plumbing and electric light wiring and fixtures, third floor of Nurses Home; and remodeling steam and hot water trunk lines, Gowanda State Homeopathic Hospital, Gowanda. G. L. Heins, State Arch., Albany, N. Y. (Advertised, Engineering News.)

SARATOGA, N. Y.—Casino, $200,000; Armstrong & Joyner, Archs., 1133 Broadway; all modern improvements. Plans being prepared. Gardens and fountains, $50,000 to $100,000 additional.

TICONDEROGA, N. Y.—Bids are asked by Board of Education until 8 p. m., Nov. 22, for the erection of new high school building. F. B. Wickes, Pres.

NEW YORK, N. Y.—Albert Schwartzler, Arch., 776 Wendover Ave., wants figures on electric wiring and switchboards for an apartment house in course of erection at Wendover and Park Aves. Brick and stone, 6 stories, 50 × 90 ft.

PEET, McANERNEY & POWERS, 225 Fourth Ave., have been awarded the contract for electric wiring and switchboards for $125,000 asylum building, in course of erection at Convent Ave. and 135th St., for the Protestant Episcopal Church, 287 Fourth Ave. W. Powell Robins, 27 East 22nd St., is Arch. Fountain & Choate, 114 East 25rd St., are general contractors. Brick and stone, 4 stories, 130 × 90 ft., with wing, 30 × 25 ft.

A. F. G. Taylor, Arch., 24 East 23rd St., will take figures soon on new hotel to be erected at 211 West 57th St., for Mrs. H. T. Freeman, 205 West 52nd St. Brick and stone, fireproof, 12 stories, 26 × 137 ft.

The contract for construction of a $100,000 bank at 52-4 Norfolk St., for the State Bank, O. L. Richards, Pres., 376 Grand St., has been let to WALTER REID & CO., 156 Fifth Ave. Ed. Necarsulmer, 31 Union Sq., is Arch. Brick and stone, non-fireproof, 3 stories, 49 × 100 × 45 × 45 ft.

VAN WAGONER & LINN, 110 West 28th St., have been awarded the contract for electric wiring and switchboards for the $210,000 apartment house in course of erection at 137

East 25th St., for T. B. Leahy Building Co., 1 East 42nd St. Gordon, Tracy & Swartout, 44 Fifth Ave., Archs. Brick and stone, fireproof, 10 stories, 42 × 179 ft.

The contract for wiring and switchboards in new club house of the American Society of Civil Engineers, to be erected at 222 West 57th St., has been let to M. B. FOSTER ELECTRIC CO., 940 Broadway. Eidlitz & MacKenzie, 112 Broadway, are Archs. Brick and stone, 4 stories, 25 × 113 ft. W. L. Crow, 287 Fourth Ave., is general contractor.

C. E. Binge, Arch., 5 West 31st St., has filed plans for an apartment house, to cost $275,000, to be erected at 106th St. and West End Ave., for the Stanley Construction Co., 76 William St. Brick, stone and terra-cotta, fireproof, 12 stories, 76 × 100 ft. R. H. MacDonald & Co., 5 West 41st St., will superintend.

THOS. COCKERILL & SON, 147 Columbus Ave., have been awarded the mason work, and JAS. EIGAR, 335 West 24th St., the carpenter work, for new $500,000 stables to be erected at Lexington Ave. and 24th St., for Horgan & Slattery, 1 Madison Ave. Brick and stone, fireproof, 6 stories, 110 × 225 ft.

L. K. COMSTOCK & CO., 114 Liberty St., have been awarded the contract for electric wiring and switchboards for new auto garage to be erected at Broadway and 50th St., for the Wendell Estate, 175 Broadway, from plans by H. T. Hollwedel, 23 Union Sq. J. F. Bard, 136 Liberty St., is the general contractor. Brick and stone, 4 stories, 100 × 100 ft.

Lynch & Orchards, Archs., 1 West 34th St., are taking figures on a parish school to be erected at 131st St. and Convent Ave., for the R. C. Church of the Annunciation. Rev. W. L. Penny, pastor, 601 West 133rd St. Brick and stone, 4 stories, 100 × 100 ft.

Plans for new building to be erected at Broadway, Thames and Church Sts., have been approved and F. H. Kimball, 71 Broadway, is working on detailed plans. Brick, stone and steel, fireproof, 20 stories, 63 × 186 ft.

Arnold W. Brunner, Arch., 33 Union Sq., will take figures Nov. 15 on synagogue to be erected at Lenox Ave. and 120th St. for Temple Israel of Harlem; care D. P. Hays, 141 Broadway. Brick, stone and iron, semi-fireproof, 2 stories, 100 × 100 ft.

L. C. Brown, Arch., 40 Cedar St., is taking figures on the Alpha Delta Phi club house to be erected at 136-8 44th St. Brick, stone and terra-cotta, fireproof, 12 stories, 35 × 100 ft. C. O. Mailloux, 76 William St., is Elec. Engr.

T. J. O'REILLY & CO., 353 Fifth Ave., have been awarded general contract for erecting a hotel at 161-3 West 47th St., for H. N. Swetland, 949 Broadway, from plans by Jackson & Rosencrans, 31 Union Sq. P. J. Piatti, 156 Fifth Ave., is Steam Engr. Brick, stone and terra cotta, fireproof, 9 stories, 40 × 92 ft. H. R. Shaes, 157 West 47th St., is the lessee.

NEW YORK, N. Y.—The following bids were received Nov. 6 by Board of Education for general construction, etc., of new public school No. 42, Borough of Brooklyn: Clark & Stowe, 229 Kent St., Brooklyn, $252,300; Jno. Auer & Son, 957 Broadway, Brooklyn, $255,300; Thos. Cockerill Son, 147 Columbus Ave., $274,500; R. H. Carmen, Far Rockaway, $290,000; C. H. Peckworth, 415 Hudson St., $244,900; P. J. Walsh, 503 Fifth Ave., $243,000; Geo. Hildebrand, 38 Park Row, $252,800; Church Const. Co., 1 Madison Ave., $243,000; Jas. McArthur, 79 Madison St., Brooklyn, $322,000; Arci Const. Co., 99 Broadway, Brooklyn, $246,000; R. E. Henningham, 4 Court Square, Brooklyn, $249,400.

NEW YORK, N. Y.—The following bids were received Nov. 6 by Board of Education for construction, etc., of additions to and alterations in public school No. 25, Borough of Manhattan: Francis Sullivan, $86,900; P. Gallagher, 28th St. and Broadway, $79,000; Wm. Werner, 592½ Forest Ave., $96,589; P. Sullivan, $87,090; A. Nugent Son, $89,790; Thos. Cockerill Son, $89,000; Thos. McKeon, 110th St. and Broadway, $99,477; Ed. D. Broderick, 115 East 90th St., $90,000; Fanning & Rielly, 66th St. and Broadway, $100,995; Geo. Hildebrand, $92,400.

ELBERON, N. J.—Raleigh & Gildersleeve, Archs., 150 Fifth Ave., New York City, will take figures Nov. 10 on a residence to be erected at Elberon for Harvey Fisk, 29 Nassau St., New York City.

NEWARK, N. J.—The Committee on Public Buildings of the Newark Board of Freeholders has awarded the contract for additional buildings to Hospital for Insane at Overbrook to RICHARD E. HENINGHAM, 4 Court Sq., Brooklyn, N. Y., at his bid of $1,073,980 for the entire work.

LONG BRANCH, N. J.—Casino, $150,000; frame, stucco, Convent hall, $5,000; furniture, $50,000; pier and board walk, not included in general contract.

JERSEY CITY, N. J.—Board of Chosen Freeholders of Hudson Co., care H. Otto Wittpenn, 320 Communipaw Ave., Jersey City, will receive bids until Nov. 21 for the erection of an almshouse from plans by C. Fred. Long, 1 Montgomery St., Jersey City. Men's dormitory, 2½ stories, 50 × 100 ft.; administration building, 3½ stories, 55 × 80 ft.; women's dormitory, 2½ stories, 44 × 108 × 44 × 127 ft., all of brick and stone.

JERSEY CITY, N. J.—C. F. Long, Arch., 1 Montgomery St., Jersey City, has plans in progress for warehouse. Brick, mill construction, 4 stories, 65 × 100 ft.

PHILADELPHIA, PA.—Bids will be received, Horace Trumbauer, Arch., Land Title Bldg., Philadelphia, on Nov. 13 for the erection of new clubhouse for the Racquet Club. Cost, $300,000. Building will be erected on 16th St. below Walnut.

LANCASTER, PA.—In reference to the erection of the Stevens Orphans' Home John B. Warfel writes us that no action has been taken toward securing plans, etc. Site has not yet been secured.

WILMINGTON, DEL.—Bids will be received about May 1 by S. J. Joyner, Landscape Arch., 1133 Broadway, New York City, on improvements to the A. I. Du Pont Estate by the construction of residence, etc.

WILMINGTON, DEL.—The Pennsylvania R. R. Co. has contracted with the American Bridge Co. for structural iron work for its passenger station at Wilmington.

CARRCROFT, DEL.—S. J. Joyner, Arch., New York City, will ask for bids about Jan. 15 for the erection of residences here and at Linden.

BALTIMORE, MD.—It is stated that the Fraternal Order of Eagles will erect a six-story clubhouse. Tormey & Leach, 323 North Charles St., are Archs.

FORT WASHINGTON, MD. — Bids are asked by Lieut. Willis C. Metcalf, C. Q. M., until 12 m., Nov. 16 for furnishing and installing electric light fixtures in one single set of non-commissioned staff officers' quarters at Fort Hunt, Va.

BALTIMORE, MD.—Milton C. Davis, 140 West Fayette St., is the lowest bidder, at $34,380, for construction of an addition to school No. 10 at Hollins and Amity Sts. for the city, and will probably be awarded the contract by the Municipal Board of Awards, City Hall.

WASHINGTON, D. C.—Bids are asked by Walter Wyman, Surg. Gen., Public Health and M. H. S., Washington, D. C., until 2 p. m., Nov. 16, for supplying and installing complete all the combination gas and electric light fixtures required.

WASHINGTON, D. C.—Bids are asked by Jas. Knox Taylor, Supv. Arch., until 3 p. m., Nov. 25 for furnishing and placing lighting fixtures for U. S. Bureau of Engraving and Printing (west outbuilding), Washington, D. C.

WASHINGTON, D. C.—The Columbia Hotel Co. has taken out a permit for an 11-story addition to Raleigh Hotel. Estimated cost, $100,000. George A. Fuller Co., Home Life Bldg., builders.

LYNCHBURG, VA.—Dr. W. W. Smith, Dean of Randolph-Macon system of schools of Virginia, announces that a new dormitory will be erected for the college here, at a cost of $30,000. The erection of a science hall is also contemplated.

ASHEVILLE, N. C.—A five-story office building will be erected here. C. H. Miller can inform.

ANDERSON, S. C.—Bids are wanted for the erection of a Carnegie library. Address Fred. G. Brown, Chn. Library Com., or Jos. H. Casey, Arch.

CARTERSVILLE, GA.—W. T. Downing, Arch., Prudential Bldg., Atlanta, Ga., is preparing plans for Methodist church here. Cost, $30,000.

BIRMINGHAM, ALA.—It is stated that B. M. Allen will erect a four-story opera house at a cost of $35,000.

CARBON HILL, ALA.—The plans for the town hall at Carbon Hill, prepared by Edgar B. Kay, Engr., Tuscaloosa, Ala., have been approved and bids are asked for the construction by the Town Council. B. B. Guthrie, Clk.

LINDEN, ALA.—Sealed proposals for the construction of a jail for Marengo County will be received by County Commissioners until Nov. 21. A. L. Hasty, Probate Judge.

LAUREL, MISS.—Sealed bids will be received for the erection of a two-story brick school house until Dec. 7. Separate bids are to be submitted for the construction, heating, plumbing and wiring. W. F. Daly, Cy. Clk.

OPELOUSAS, LA.—The Opelousas Improvement & Development Co., John W. Lewis, Pres., will receive bids for the construction of a three-story hotel, cost to approximate $50,000.

MEMPHIS, TENN.—J. H. & J. W. Draughton will erect an eight-story loft building at a cost of between $60,000 and $75,000.

CHATTANOOGA, TENN.—The Chattanooga Warehouse Co. will erect an eight-story warehouse at a cost of $50,000.

HUMBOLDT, TESN.—Plans and specifications for new school building have been accepted by Building Committee of the Board of Education and the architects, L. M. Weathers Co., of Memphis, has been authorized to advertise for sealed bids. The Board of Education will also advertise for bids—all of which will be opened on Dec. 14. Mayor J. C. Adams is Chn. Bldg. Com.

CHATTANOOGA, TENN.—The Bijou Theatre Co. has applied for a charter with $40,000 capital, to erect a theater building. Incorporators: A. W. Chambliss, T. T. Wilson, J. B. Pound and others.

CHATTANOOGA, TENN.—Jake Wells, of Richmond, Va., has purchased property here at a cost of $10,000 and will erect an opera house at a cost of about $40,000.

LOUISYILLE, KY.—The St. Paul's German Evangelical Church is considering the erection of a new church, to cost $41,000.

PERU, IND.—C. W. Macy, County Audr., advises us that plans will be submitted on Nov. 16 for a court house. Cost, $255,000.

GRAND RAPIDS, MICH.—Plans have been accepted for the new depot which the Grand Trunk will build for its new terminal, corner Bridge and Canal Sts. The contracts will be let very soon, and it is expected to have the new building ready for use by next May. Cost, about $50,000. The exterior dimensions will be 80 × 80 ft., and running back of this will be a train shed 300 ft. long. It will be built of brick and stone, with a Spanish tile roof; two stories high, a six-story tower 20 × 20 ft. It will be approached from all sides by broad paved walks and roadways.

GREEN BAY, WIS.—The following bids were opened Oct. 27 at the Indian Office, Washington, D. C., for construction of buildings at the Menomonee school, Green Bay Agency: Item 1, constructing warehouse; 2, laundry; 3, dormitory; 4, employes' quarters; 5, water and sewer system: H. & F. Roettieger (1) $1,920, (2) $3,050, (3) $26,006, (4) $7,130; Harry W. Powers, Green Bay, (1) $1,985, (2) $2,559, (3) $21,619; (4) $6,842, (5) $505; W. D. Lovell, Minneapolis, Minn., (1) $1,724, (2) $2,508, (3) $21,137, (4) $6,446; (5) $313; Carl J. Land (1) $2,458, (2) $3,491, (3) $28,468, (4) $6,794; Jas. H. Owens, Minneapolis, (1) $1,920, (2) $2,900, (3) $24,850, (4) $7,300.

CHEYENNE, WYO.—Bids are asked until 2 p. m. Dec. 2 for material and labor for construction of a cavalry drill hall at Fort Russell, Wyo. Capt. W. S. Scott, Q. M. U. S. A. Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

ST. LOUIS, MO.—A permit has been issued to Samuel & Burden Construction Co. to build a 14-story building at Broadway and Chestnut St., at a cost of $550,000.

ST. LOUIS, MO.—Plans are about completed for new building for Brown Shoe Co. to cost approximately $350,000. Geo. W. Brown is Archs.

ST. LOUIS, MO.—A 14-story office building will be erected here next year by the Augusta Realty & Building Co., in which Isaac T. Cook, Mgr. Chemical Bldg., and Jas. Black, contractor, Commercial Bldg., are interested.

The Board of Education will build a large addition to the Summer High School on South 14th St.

ST. LOUIS, MO.—Theo. C. Link, Arch., Carleton Bldg., is preparing plans for the Y. M. C. A. building to be erected on Eugenia and Tom Sts., for the railroad employes, at a cost of $150,000.

LITTLE ROCK, ARK.—The First Christian Church will erect a new house of worship at a cost of $40,000. Work on the foundation will be started this week. Address the pastor.

JACKSONVILLE, TEX.—Bids are asked by Building Committee of the Alexander Collegiate Institute of Jacksonville, until Nov. 15 for constructing a three-story college building. C. E. Jaques, Arch., Jacksonville. Bids will be considered for both concrete and brick construction.

ENID, OKLA.—A. A. Crowall, County Clk., informs us that bids will be closed at 6 p. m., Nov. 27 for erection of a court house.

TULSA, IND. T.—A $50,000 opera house will be erected here by a company of which C. L. Reeder is president, and F. W. Bull, secretary.

SEATTLE, WASH.—F. W. Keen is soon to erect a four-story pressed brick and stone hotel building at the corner of Seventh Ave. and Madison St. The building will cost between $28,000 and $30,000. The plans were drawn by Archs. Josenhans & Allan, 74 Hinckley Bldg.

LOS ANGELES, CAL.—A. Bumiller will erect a six-story store and office building on Broadway, between Fourth and Fifth Sts., at a cost of about $100,000. Morgan & Walls are Archs., 232 North Main St., Los Angeles.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BRUNSWICK, ME.—Trustees Brunswick and Topsham Water District have issued a call for bids for $325,000 water district bonds. Water system at present supplies Brunswick, but it is expected that it will be extended to supply Topsham.

ST. JOHNSBURY, VT.—Village meeting was held Nov. 7 to vote on adding filter system to municipal works. At a previous election matter was defeated.

BRATTLEBORO, VT.—Geo. E. Crowell, who proposes to develop water rights in Stickney Brook to supply this place, has awarded contract for building reservoir to E. C. CROSBY, Brattleboro.

SWANTON, VT.—Special election was held Oct. 28, to take action on procuring another water supply for the village.

WEST SPRINGFIELD, MASS. — State Board of Health has authorized Water Commissioners to use the water in Bear Hole Brook as a permanent water supply, which is to be filtered by a large filter to be built at the lower end of the Bear Hole Valley, with a capacity of 1,250,000 gallons per day.

GARDINER, MASS.—Boston & Maine R. R., H. Bissell, Ch. Engr., Boston, Mass., according to reports, is to construct a water system here. Supply may be secured from Foster Brook, storage reservoir constructed and pipe line built.

FITCHBURG, MASS.—Contract for 6,600 ft. 24-in. and 550 ft. 30-in. pipe has been let to CAMDEN IRON WORKS, Camden, N. J. Pipe is to be delivered during the winter and is to be used in the extension of the water service from Lake Wachusett.

PROVIDENCE, R. I.—Bids are asked by Department of Public Works, Walter F. Slade, Comr., until 11 a. m., Nov. 16, for furnishing and delivering a large quantity of cast iron waste pipe. (Advertised, Engineering News.)

LEWIS, N. Y.—Charles Bullis is stated to contemplate installing water-works for this village.

WATERLOO, N. Y.—Waterloo Water-Works Co. proposes, it is said, to extend its mains so as to secure a supply direct from Senaca Lake.

MUND', N. Y.—Municipal water-works advocated for this place.

ALLENHURST, N. J.—West Allenhurst Water Co., recently incorporated with $30,000 capital, has organized with George C. Allen, Allenhurst, as President. Company proposes to install water-works to supply West Allenhurst.

PERTH AMBOY, N. J.—Bids are asked by Water Commissioners, Adam Eckert, Clk., until 8.30 p. m., Nov. 15, for furnishing material and constructing complete one 25-ft. suction well at Runyon, N. J. Samuel J. Mason, Engr. Bids are also asked for furnishing one tubular boiler and fittings at Runyon, N. J., the advertisements for both pieces of work appearing in this issue of the Engineering News.

McKEESPORT, PA.—Of the $200,000 bond issue which was voted on at Nov. 7 election, $150,000 is to be used for the erection of a filtration plant, settling tanks, buildings, additional machinery, boilers and additions to the pumping [illegible] the remainder will be used for installing larger water mains.

ANGELICA, PA.—Angelica Water & Ice Co. has awarded contract [illegible] concrete reservoir to W. [illegible] diameter, N. 6th St., Reading, Pa. [illegible]HANT, 329

HOMESTEAD, PA.—We [illegible] advised that nothing definite has been [illegible] regarding adopting meter system for [illegible] city; ordinance is now before council.

FORT DU PONT, DEL.—[illegible] asked by Capt. Louis F. Garrard, Jr., [illegible] Delaware City, Del., until 10.30 a. [illegible] 28, for constructing addition and [illegible] to present pump house at Fort D[illegible]

GREENSBORO, N. C.—W[illegible] informed that all contracts for city w[illegible] works have been awarded, except for th[illegible] house and pumps, which are not need[illegible] immediately. Contract for pipe was let [illegible] CELSIOR WOOD PIPE CO., and contr[illegible] reservoir was let to C. S. ORDWAY, [illegible] ville, Va. J. M. Bandy, Greensboro, is [illegible] According to press reports the re[illegible] will cost $40,000 and will require in [illegible] struction 6,000 bbls. cement, 6,000 cu [illegible] stone and same amount of sand, and re[illegible] of about 33,000 cu. yds. of earth.

FORT SCREVEN, GA.—Bid[illegible] asked by Jos. T. Davidson, Q. M., until [illegible] m., Nov. 27, for enlarging boiler house [illegible] installation thereon of boilers and pu[illegible]

LIVE OAK, FLA.—Special el[illegible] has been called for Nov. 21 to vote on [illegible] $45,000 of bonds for purchasing and [illegible] constructing water-works. M. E. Broome is Mayor.

PENSACOLA, FLA.—Following bids were opened Oct. 31 at Navy Department, Washington, D. C., for driving, test[illegible] and withdrawing from 1 to 5 tests [illegible] on the Naval Reservation, Pensacola: (1) price per foot for as many feet 4-in. galvanized wrought-iron pipe as may be required; (2) price for as many strainers as may be required, each; (3) rental of apparatus, per day; (4) services of superintendent, per day: A. B. Blakeman, New Orleans, La., (1) 98 cts., (2) $2.75, (3) $20, (4) $10; Charles F. Cheney, New Orleans, La., (1) 50 cts., (2) $30, (3) $47.25, (4) $7.50; J. R. Kellar, New Orleans, La., $2,100 for 300 ft., $5 per ft. for over 300 ft.

HAMMOND, LA.—Bids are asked by Mayor and Board of Aldermen until 2 p. m., Dec. 6, for construction of water works. C. H. Jenks, Engr., Fayette, Miss.; James B. Adams, Town Clk. Plans and specifications may be seen at offices of Engineering News, Monadnock Block, Chicago, Ill., after Nov. 15. (Advertised, Engineering News.)

JENNINGS, LA.—A meeting has been called for Nov. 15 of the farmers and irrigators of the Mermentau Basin, to devise ways and means to raise funds to rebuild and maintain the Mermentau dam, which was recently blown up with dynamite.

NASHVILLE, TENN.—John T. Ahern, Supt. W.-W., estimates cost of plant for supplying water to West Nashville at $69,642. West Nashville is to be annexed to the city next September.

LAWRENCEBURG, TENN.—City has voted to issue $25,000 of bonds for water and light.

MARION, KY.—Bond issue of $27,000 for water-works is to be voted on.

CINCINNATI, O.—Contract for furnishing and delivering filter sand and gravel for the filtration plant has been awarded to J. B. WARE & SONS, Cincinnati. The amount of the contract was $9,120.

GALION, O.—Local water-works is to be sold at public auction Nov. 25. Plant is appraised at $100,000.

AURORA, IND.—City Council has signed a 25-year contract with D. J. Hauss, of Cincinnati, O., to furnish the city and individual consumers with water and electric light.

CROSWELL, MICH.—Matter of bonding for extending and maintaining water-works and electric light systems was voted on Nov. 7.

ATHENS, MICH.—Village votes Nov. 14 on issuing $8,000 bonds to provide water-works.

MINOOKA, ILL.—All bids for constructing water-works for this place, M. L. Kaffer, Village Clk., have been rejected.

DOWNERS GROVE, ILL.—Bids are asked by Board Local Improvements, Charles Mochel, Pres., until 7.30 p. m., Nov. 15, for furnishing all the material and laying the following approximate quantity of cast iron water pipe, hydrants and valves: 2,616 ft. 8-in. pipe, 3,264 ft. 6-in pipe, 1,400 ft. 4-in. pipe, 9 hydrants and 18 valves with boxes.

ROCK ISLAND, ILL.—Council water-works committee is stated to be making investigations as to advisability of installing a filtering plant or an artesian well system. Council has awarded contract for new 8,000,000 gallon water-works pump, bids for which were received Oct. 2, to the SNOW STEAM PUMP WORKS, Buffalo, N. Y., for $24,990.

DULUTH, MINN.—L. M. Case, Mgr. Water and Light Plant, is urging Water and Light Commissioners to purchase a new 10,000,000 gallon pump for the Lakewood station.

LINCOLN CENTER, KAN.—City has voted to install water-works and electric lights. Post-Office is Lincoln, Kan.

BELLE FOURCHE, S. DAK.—Contract for constructing Belle Fourche Dam, and first divisions of the North and South canals, has been awarded to ORMAN & CROOK, Pueblo, Colo., at the following bids: Dam, $879,104; North Side Canal, $71,130; South Side Canal, $53,005. Bids for the work were opened Oct. 26 by U. S. Reclamation Service and were given under Contract Prices in our issue of Nov. 2.

NEOSHO, MO.—Proposition to issue $40,000 of bonds for installing new water-works was defeated at recent election. It is reported that a company will make an offer for the city plant, with intention of spending $120,000 on its improvement.

SAVANNAH, MO.—City has voted to issue $35,000 of bonds to establish water works.

BALLINGER, TEX.—Bids are reported asked until Dec. 1 for constructing waterworks for this city. Est. cost is $12,000. J. W. Powell, Mayor.

FORT WORTH, TEX.—Capps Land Co., Wm. Capps, Pres., Fort Worth, which is being organized with $200,000 capital stock to develop South Hemphill Heights, proposes to construct a water-works system, lay 6½ miles of mains and install an electric light plant.

WACO, TEX.—North Waco Artesian Water Co., capitalized at $5,000, has been incorporated. John Sleeper, Seth P. Mills and W. R. Clifton are interested.

WHITESBORO, TEX.—Installation of water-works is under consideration.

AUSTIN, TEX.—International & Great Northern R. R. J. D. Trammel, Ch. Engr., Palestine, Tex., is preparing to install a water plant at this place.

FORT WORTH, TEX.—Following bids were received Oct. 14 by this city, John B. Hawley, Cy. Engr., for furnishing air compressor plant for city water-works: Ingersoll-Rand Co., El Paso, Tex., one 1,200 cu. ft. Corliss air compressor with girder frame and a 1,800 cu. ft. Corliss air compressor with girder frame, boilers, piping, etc., $34,-150; same as first bid except compressor has heavy duty frames, $35,867; Rand air compressor of same capacity, with same boilers, etc., as above, $31,588. Laidlaw-Dunn-Gordon Co., St. Louis, one 1,200 cu. ft. Meyer gear forked frame air compressor and one 1,800 cu. ft. Corliss gear heavy duty frame air compressor, boilers, piping, etc., $32,164; same as first bid except both compressors have Corliss valve gears and heavy duty frames, $35,464; one 3,000 cu. ft. air compressor with Corliss valve gear and heavy duty frame with same boilers, piping and auxiliary apparatus as above, $32,029. Hudson Eng. & Contr. Co., New York, Laidlaw-Dunn-Gordon Co. air compressor, $40,625; Laidlaw-Dunn-Gordon Co. compressor, $43,-875. Snow Steam Pump Works, Buffalo, N. Y., one 1,200-ft. air compressor directly connected to gas engine, with gas producers, piping, etc., and one 1,800-ft. air compressor directly connected to gas engine, with gas producer, piping, etc., $79,185; one 3,000 cu. ft. air compressor directly connected to gas engine, with gas producers, piping, etc., $65,-675. Ben. F. Wolf & Co., Dallas, Tex., one 1,200 cu. ft. and one 1,800 cu. ft. air compressors, with complete electrical generating plant, boilers, steam engines and all steam and electrical appurtenances, $97,349. Hardie-Tynes Co., Columbus, O., also submitted proposal but gave no price.

DAVIS, IND. T.—Bids are reported asked by Mayor J. R. Clemons until Nov. 29 for furnishing materials and constructing waterworks. A $25,000 bond issue for this purpose was voted Oct. 27.

WOODWARD, OKLA.—We are advised that this city voted Oct. 30 to issue $50,000 of water-works bond. O'Neil Engineering Co., Dallas, Tex., is preparing plans and specifications for the work.

BOULDER, COLO.—City has purchased Silver Lake, 22 miles from Boulder, and will, it is stated, expend $200,000 in laying pipe line and erecting plant. L. R. Johnson is Mayor.

BREWSTER, WASH.—It is proposed to establish irrigation system near this place to irrigate about 2,300 acres of land. Supply would be obtained from Whitestone Lake and a four-mile ditch constructed. L. B. Norton, Zillah, Wash., is reported as interested.

SPOKANE, WASH.—According to advices from this city the Mathew Canal Co. has been organized to irrigate 3,500 acres of land in Okanized County. Company is capitalized at $100,000 and Cyrus Happy is Pres. and Gen. Counsel. L. MacLean, vice-Pres. and Gen. Mgr.; C. H. Knapp, Secy. and Treas., and M. B. Garrott, Ch. Engr.

GEORGETOWN, WASH.—Special election may be held to vote on issuing $20,000 of bonds for putting in water-works.

WAITSBURG, WASH.—Advices from this city state that Water Committee has reported favorably on pumping the water from the Touchet River for a supply. This will necessitate the purchase of filtering plant. Committee has been instructed by council to correspond with manufacturers with view to purchasing a plant.

DUFUR, ORE.—City has taken over plant and franchise of Dufur Water Co. for $4,000 and proposes to improve works by putting in new mains.

RICHLAND, ORE.—Eagle Valley Water, Light & Lumber Co., capitalized at $50,000, has been incorporated. C. F. Slade, Walter S. Love and T. F. Mackmiller are interested.

HOOD RIVER, ORE.—Bids were opened Oct. 28 by Hood River Irrigation District, J. H. Shoemaker, Secy., for constructing canals and irrigation works, the contract being awarded to GIEBISCH & JOPLIN, Portland, Ore. Work includes about 5,000 cu. yds. solid rock excavation, 10,000 cu. yds. loose rock excavation and 80,000 cu. yds. earth excavation. Irrigation ditch is to be 12 miles long, 5 ft. wide in bottom and 3 ft. deep.

CLINE FALLS, ORE.—L. D. Wiest, Bend, Ore., has been making surveys for an irrigation system, with which the White Rock Irrigation Co. proposes to water about 2,500 acres of land near here.

PORTLAND, ORE.—Bids are asked by Water Board, Frank T. Dodge, Supt., D. D. Clarke, Engr., until 3 p. m., Nov. 27 for furnishing 4,195 tons cast iron water pipe and 106,000 lbs. special castings. (Advertised, Engineering News.)

MONROVIA, CAL.—Council Water Committee is reported to be considering installation of new machinery at the water plant.

WOODLAND, CAL.—Bids are asked by Chas. W. Pickard, Cy. Clk., until 5 p. m., Nov. 20 for material and erection of 120,000 gallon tank and tower, 64 ft. high.

FORT MILEY, CAL.—Bids are asked by Col. Wm. S. Patten, A. Q. M. G., San Francisco, Cal., until 11 a. m., Nov. 25, for construction of a 100,000 gallon reinforced concrete reservoir at Fort Miley.

SAN FRANCISCO, CAL.—United Power Water & Dredging Co. has been incorporated with a capital stock of $75,000. J. A. McPherson, J. P. Moffett and M. J. Turner are interested.

GARVALIA, CAL.—Fairlie Water Co., capitalized at $50,000, has been incorporated. James A. Parker, Edmund H. Parker and Morton Haig, Garvalia, are interested. Post office is San Gabriel, Cal.

LOS ANGELES, CAL.—Bids were opened Oct. 16 by Board Water Commissioners, Wm. Mulholland, Supt. W.-W., for furnishing and delivering 5,050 tons cast iron pipe, the contract being let on Oct. 30 to U. S. CAST IRON PIPE & FOUNDRY CO., through Crane Co., Agents, N. Los Tngeles St., Los Angeles, Cal.

PRESCOTT, ARIZ.—McCabe Water, Light & Power Co., capitalized at $50,000 has been incorporated. Hiram E. Todd and H. A. Suttle, of Peoria, Ill., are incorporators. Place of business is Prescott.

SALT LAKE CITY, UTAH.—Garfield Water Co. has been incorporated at Albany, N. Y.; capital is $300,000 and company proposes to operate around Salt Lake. The directors are John A. Keppelman, Gilbert H. Montague, Mason Trowbridge, Niel A. Weathers and Wm. A. Parker, New York; Millard C. Humstone and Ross A. Mackey, Brooklyn.

SALT LAKE CITY, UTAH.—Following applications for water rights have been filed at State Engineer's Office: M. F. Murray, Richfield, Utah, 16 second ft. of water from Dry Canyon Creek in Sevier County, diverting works to consist of a tunnel 1,000 ft. long and a canal 8,280 ft. long, water to be used for irrigating.—Emma J. Stevens, of Logan, Utah, two second ft. from the Uintah River, to be carried through a canal 5¾ miles long to her Uintah farm.—Nephi Martineau of King, Utah, Cache County, on 15 second ft. of waste water from the Logan and Hyde Park Canal in Cache County, water to be conveyed by means of a canal 48 miles long.—Homer Robb and others, of Vernal, Utah, made application for 24 second ft. to be diverted from Green River, in Uintah County. The channel is to be 56,974 ft. in length.—John Nordgreen, Telluride, Colo., 4 second ft. to be diverted from Green River, in Uintah County diverting canal to be 13,-200 ft. in length.—C. A. Starr, of Springville, Utah, 3 second ft. from the Green River in Wasatch Canal, canal to be 12,000 ft. long.—W. H. Weyher, 315 Dooly Block, Salt Lake City, water from Lone Spring in Dry Canyon, Carbon County, to be used in refining sand asphaltum, water to be piped 9,850 ft. and pumped over a hill 400 ft. in height to the Surprise mining district.

CALGARY, ALBERTA.—The construction of the main canal and the first secondary canal for the irrigation of the Canadian Pacific Ry. lands between Calgary and Gleichen is reported to be progressing satisfactorily, and it is expected that about 110,000 acres of irrigated land will be available early next year. Work will then be prosecuted on the second of the secondary canals, for the purpose of bringing water to about 200,000 acres in addition. J. S. Dennis, at Calgary, is Superintendent of Irrigation for the Canadian Pacific Ry.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

MILFORD, MASS.—Matter of sewer system for this town is under discussion, according to estimates of engineers; system could be put in for $268,422. Joseph F. Hickey is Secy. Town Sewer Com. L. E. Heath is Chn. Bd. Selectmen.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., Brooklyn, until 11 a. m., Nov. 15, for labor and material for construction of sewers in Quay St., from East River to West St. Work includes 1,315 lin. ft., 66-in., 685 lin. ft. 60-in. and 665 lin. ft. 54-in. reinforced concrete sewer, etc.; 250 working days are allowed for the completion of the work. Bids are also asked for construction of sewer in Bay Eighth St., 75 working days being allowed for completion of contract.

Board of Estimate has authorized construction of a sewer system for Bay Ridge District, Borough of Brooklyn. Est. cost is $194,800.

NEW YORK, N. Y.—Bids were opened Oct. 31 by the President of Bronx Borough for the construction of sewers; the following are the three lowest bidders: Sewer in W. 166th St., Waters & Kuhn, 765 Tremont Ave., $4,249; Italian-American Engineering Co., 80 Center St., $4,468; J. H. Kenigan, 2016 Arthur Ave., $4,471; sewer in Grand Boulevard and Concourse, J. H. Kenigan, 2016 Arthur Ave., $5,212; S. M. De Pasquale, Williamsbridge, $5,442; McDonald & Russell, 765 Tremont Ave., $5,464. Temporary sewer in White Plains Road, Culgin & Pace, 787 Tremont Ave., $11,332; Italian-American Engineering Co., 80 Center St., $11,508; W. J. Brennan, 1968 Clinton Ave., $11,560. Rebuilding sewer in E. 149th St.: Italian-American Engineering Co., 80 Center St., $33,394; Culgin & Pace, 787 Tremont Ave., $34,268; F. V. Smith Contracting Co., 147 E. 125th St., $34,575.

PLAINFIELD, N. J.—Following bids were opened Nov. 6 by Common Council, Andrew J. Garvett, Cy. Surv., for constructing Sec. A of storm sewer in Richmond St.: Stacy B. Opdyke, Jr., 1931 Broadway, New York, $3,662; Richards & Gaston, 143 Liberty St., New York, $5,042.

JOHNSTOWN, PA.—Contract for constructing sewers in Broadway St., Meyersdale Borough, has been let to HERMAN THIEL & SON, Johnstown, for $4,995.

WHEELING, W. VA.—Contract for about three miles of sewerage in newly incorporated town of Edgewood has been awarded to WM. SPINDLER, Elmgrove, W. Va.

ROCK HILL, S. C.—We are advised that question of sewerage for this place is only being agitated, and nothing will probably be done before next spring. Jno. T. Roddey is Mayor.

LIVE OAK, FLA.—Election will be held Nov. 21 to vote on issuing $35,000 for constructing sewer system. William W. Lyon, Palatka, Fla., is Engr. M. E. Broome is Mayor.

SHREVEPORT, LA.—Bids are asked by Shreveport Water-Works Co., J. H. Purdy, Gen. Mgr., 1200 Bank for Savings Bldg., Pittsburg, Pa., until noon, Nov. 24, for constructing 12,000 ft. of 8-in. and 10-in. vitrified pipe and cast iron sewers in cuts varying from 6 ft. to 30 ft. (Advertised, Engineering News.)

ELYRIA, O.—Bids are asked by Board Public Service, Scott Hinman, Clk., until Nov. 23, for construction of trunk sewer and branches on east side of city. Est. cost is $40,000.

LIMA, O.—Bids are asked by this city until Nov. 13 for construction of 200 ft. 36-in. and 125 ft. 60-in. brick or concrete sewer, as an extension of Tafflinger trunk sewer; also 530 ft. 20-in. tile sewer in Scott St. O. J. Rose, Clk.

MADISON, O.—State Board of Health has recommended a new sewage disposal plant for the Madison Soldiers and Sailors Home.

PORTSMOUTH, O.—Bids were opened Oct. 26 by Board Public Service, B. C. Bratt, Cy. Engr., for constructing Robinson Ave. sewer, S. P. Baird, Portsmouth, being low bidder at the following figures: Sewer of stone construction, $34,604; of concrete, $34,774.

MUSKEGON, MICH.—Following bids were received by this city for sewer construction in Fourth District; Bennett & Schnorback, Muskegon, $9,900; Robert Love, Muskegon, $11,305; Came Construction Co., Dayton, O., $9,845; Charles Carpenter, Grand Rapids and William Smith, Muskegon, $8,989.

RIVERROUGE, MICH.—Election will be held latter part of December to vote on issuing bonds for sewer system. Mason L. Brown, Chamber of Commerce Bldg., Detroit, Mich., is Engr.; John Cassidy, Jr., is Village Clk.

ELGIN, ILL.—City proposes, it is stated, to install a sewer system north of Division St., next summer, the cost of such a system to be between $100,000 and $150,000.

ALTON, ILL.—We are advised that City Council on Oct. 28, passed ordinances for construction of about eight miles of sewers.

CHICAGO, ILL.—Board Local Improvements, Andrew Lynch, Pres., is reported to be calling for bids until Dec. 6 for construction of 95th St., intercepting sewer system, which will cost about $900,000. Bids for the work were opened some weeks ago, but were rejected.

DOWNERS GROVE, ILL.—Bids are asked by Board Local Improvements, Charles Mochel, Pres., until 7.30 p. m., Nov. 15, for furnishing all materials, and constructing the following approximate amount of storm water drains, with manholes and inlets: 5,740 ft. open ditch improved, 870 ft. 20-in. tile drain, 200 ft. 18-in tile drain, 1,455 ft. 15-in. tile drain, 2,720 ft. 12-in. tile drain, 14 manholes and 24 street inlets.

WASHINGTON, IA.—We are informed that action will be taken Dec. 4 on proposed resolution for construction of 3,000 ft. 3-ft. diameter, block sewers; average cut 5 ft. Contract will probably be let 30 days later. A. N. Alberson is Mayor.

DES MOINES, IA.—Bids were opened Nov. 3 by Board Public Works for constructing 675 ft., 24-in. sewer in Hayes St., the contract being awarded to O. P. HERRICK, 107 W. Locust St., at $2.88 per lin. ft. Contract for constructing 1,303 ft. 12-in. sewer in York St., bids opened Oct. 27, was also let to O. P. HERRICK, at $1.68⅞ per lin. ft.

DES MOINES, IA.—Bids are asked by W. W. Wise and J. W. Campbell, Bd. Pub. Wks., until 11 a. m., Nov. 16, for construction of following sewers: 1,025 lin. ft., 15-in. vitrified clay pipe sewer in East J St., 165 lin. ft., 12-in. sewer in W. 11th St.; 491 lin. ft., 12-in. sewer in 25th St.

MOORHEAD, MINN.—We are advised that no bids were received Oct. 27 for constructing main outfall sewer. Contract will not be let until the first part of next year. H. E. Roberts, Cy. Clk., is official in charge.

LAKE PRESTON, S. DAK.—Bids are reported asked by L. S. Brooks, Cy. Clk. until Nov. 13, for construction of sewer system.

LIVINGSTON, MONT.—City Council has been considering construction of sewer system. Estimated that main sewer could be put in for about $20,000.

CAPE GIRARDEAU, MO.—Owing to error in ordinance contract for sewerage for this place has not been let; the work will be readvertised. Granbery Jackson, Engr., Nashville, Tenn.; Wm. H. Coerver, Mayor.

WEBB CITY, MO.—Bids are reported asked by W. E. Smith, Cy. Engr., until Nov. 20, for reconstruction of 1,719 ft. 8-in. sewer, 110 6-in. Y branches, four manholes and one flush tank.

ST. CHARLES, MO.—We are advised that about 15 miles, 8-in. to 15-in. sewers, are to be constructed for this city at an est. cost of $75,000; date for letting contract had not been set. Burns & McDonnell, Des. Engrs., Dwight Bldg., Kansas City, Mo.

BRENHAM, TEX.—Right of way is being secured for sewer on north side of town; bids are to be asked soon, it is stated. William Lusk is Mayor.

HARRINGTON, WASH.—City Council has accepted the plans of P. T. Byrne, Engr., of Spokane, Wash., for the proposed city sewer system, and drawings and blue prints of the same have been ordered made.

GRANT'S PASS, ORE.—Following bids were opened Oct. 20 by City Council for construction of sewers in Second and Seventh Sts.: J. B. Siemmons, Portland, Ore., $20,-318; F. A. Crixon, Tacoma, $18,500; O. R. Swearengen and C. A. Dickison of Grant's Pass, $18,500; E. M. Moore, Tacoma, $16,-800; Herbert & Scott, Portland, $18,731; Bechill Bros., Portland, $17,945; J. L. Calvert, Grant's Pass, $17,666; G. W. Kearns, Grant's Pass, $16,720; Simon Kloverdahl, Eugene, Ore., $15,512.

VISALIA, CAL.—M. L. Weaver is to make report on cost of repairing present sewer system. Bond election to issue $15,000 of bonds may be called.

SAN JOSE, CAL.—According to report of City Engineer Piper, est. cost of sewer extensions will be $121,000. He suggests that $54,000 additional be spent for renewal of lower portion of outfall sewers.

LOS ANGELES, CAL.—Council Bridge and Sewer Committee has been considering matter of recommending a $550,000 bond issue, part of which would go for completing internal sewer system.

FRESNO, CAL.—City has voted to issue $15,000 of bonds for sewer system improvements.

DOUGLASS, ARIZ.—Plans are reported to have been drawn for a $65,000 sewer system for this place.

TORONTO, ONT.—Contract for septic tanks and contact beds for district east of Woodbine Ave. has been let to CAMERON SEPTIC TANK CO., 812 Monadnock Block, Chicago, Ill. The same company has also secured from the Muskoka Lakes Navigation & Hotel Co., for septic tanks and contact beds for the Royal Muskoka Hotel, on Lake Rosseau.

HAMILTON, ONT.—Council Sewers Committee has been considering question of submitting by-law to taxpayers to provide funds to carry out annex drainage scheme. About $37,000 would be required.

VANCOUVER, B. C.—City Engineer estimates that $300,000 will be required for new sewers next year. Eleven new septic tanks will be required and 134,000 ft. of sewers.

VICTORIA, B. C.—Plans and specifications for constructing Spring Ridge and Oak Bay district sewer have been completed and it is stated that construction work may be commenced this month. Est. cost is about $90,000.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids were received on Nov. 6 for final disposition of garbage in Borough of Manhattan. Bids were for one, two, three, four and five-year contracts. The bidders were: N. Y. Sanitary Utilization Co., 3 Burling Slip, $148,000 for each contract; Darling & Co. (Union Stock Yards), Produce Exchange, New York, $299,000 for each contract; the American Reduction Co., 26 West 26th St., $154,000 for each contract; E. J. McKean, 105 Sixth Ave., Brooklyn, $300,000 each for one-year and two-year contracts and $320,000 for three, four and five-year contracts.

KITTANNING, PA.—Henry Rader is reported to have garbage disposal franchise at this place.

YORK, PA.—It is reported that the only bid received and opened on Oct. 27 by the Sanitary and Highway Committees, for the collection and removal of garbage, was submitted by E. S. Williamson and G. W. Hunter, of Philadelphia. They bid for collecting and disposing of inorganic and organic garbage for a period of ten years as follows: "First five years from the first Monday of April, 1906, for $18,000 per year, and for the remaining five years, $18,000 per year, and $2.50 additional for every dwelling or building erected within the city limits after the first Monday of April, 1911, that makes or causes to be made inorganic or organic garbage, providing they are awarded both the contracts for the collection and disposal of inorganic and organic garbage. They also propose to dispose of the organic garbage for a period of ten years without cost to the city, provided they are awarded the contract for removal and disposal of organic and inorganic garbage."

GRAND RAPIDS, MICH.—Bids are asked by council until Nov. 27 for a new 80-ton garbage crematory. John L. Boer, City Clk. (Advertised, Engineering News.)

DETROIT, MICH.—The Board of Estimate on Oct. 27, adopted resolution authorizing issuance of $100,000 bonds for the construction of a city garbage plant. Noted on Oct. 26.

ANN ARBOR, MICH.—We are advised that bids were received Nov. 1 for garbage collection and disposal. John A. Wessinger is Health Officer.

MILWAUKEE, WIS.—We are informed that a committee is investigating the methods of garbage disposal. Frank B. Schulz is Secy. Health Board.

SUPERIOR, WIS.—We are informed that bids will be received next May for collecting city garbage. Bids will be received for a 1-year contract. J. A. Rene is Health Officer.

COUNCIL BLUFFS, IA.—We are advised that on April 2, 1906, bids will be received for a 1-year contract for collection of garbage. Average length of haul is four miles. Dr. Mat. A. Tinley is Health Officer.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

CHATHAM, MASS.—The contract for constructing state highway here has been let to JOHN H. DRUMM, of Harwich, Mass., for $5,027.

NEW YORK, N. Y.—The following bids were received Oct. 31 by Louis F. Haffen, Pres. Boro. Bronx, for regulating and grading, setting curbstones, flagging sidewalks, etc., in Longfellow Ave.: T. V. Smith Cont. Co., 147 East 125th St., $31,009; Geo. I. Bailey, 1144 Fulton Ave., $34,529; Frank Del Balso, 1480 Hoe Ave., $34,906; J. C. Voorhes, 182d St. Morris Ave., $34,366; Troy Public Works Co., Utica, N. Y., $37,076; P. J. Kane, 953 East 150th St., $37,932; W. T. Murray, 1145 Boston Road, $38,211; Schloss Const. Co., 379 East 177th St., $38,384; M.

J. Leahy, 990 East 165th St., $38,676; D. W. Moran, 563 Burnside Ave., $40,113; McDonald & Russell, 765 Tremont Ave., $40,819; Italian-American Eng. Co., 80 Center St., $41,392; A. G. Vermilye, 463 West 144th St., $34,000.

NEW YORK, N. Y.—Bids were received Oct. 31 by Louis F. Haffen, Pres. Boro. Bronx, for grading, setting curbstones, laying crosswalks, etc., in Eastburn Ave., as follows: Italian-American Engr. Co., $10,583; F. Del Balso, $10,699; Waldo Asphalt Paving Co., 1 Broadway, $11,197; Schloss Const. Co., $12,969; D. W. Moran, $13,696; A. G. Vermilye, $14,000; W. T. Murray, $17,630.

NEW YORK, N. Y.—J. C. Voorhes, 182d St. and Morris Ave., is the lowest bidder, at $7,595, for grading, setting curb, laying crosswalks, etc., in Cameron Place.

BUFFALO, N. Y.—Francis G. Ward, Comr., Department Public Works, on Oct. 27, opened bids for paving Montgomery St. from Eagle St. to south approach of New York Central subway. The Barber Asphalt Paving Co.'s bid of $6,066 was the lowest. For paving James St., from Lord to Fillmore Ave., the same company's bid of $7,456 was also lowest.

SYRACUSE, N. Y.—The Board Contract and Supply has rejected bids for laying cement walks as being too high. Frank J. Schnauber is Cy. Engr.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Nov. 15 for grading, paving and laying sidewalks on portions of several streets.

PASSAIC, N. J.—An ordinance has been introduced in the City Council providing for the improvement of Spruce St. by grading, curbing and guttering. Thos. R. Watson, Cy. Clk.

JERSEY CITY, N. J.—The Street and Water Board, Chas. Van Keuren, Ch. Engr., has decided to improve Third St.

ATLANTIC CITY, N. J.—Bids are asked by City Clerk until Nov. 13 for paving Atlantic Ave., consisting of approximately 93,000 sq. yds. asphalt pavement, 12,000 sq. yds. vitrified brick pavement, 47,000 cu. yds. excavation, 29,300 lin. ft. straight granite curb, etc. J W. Hackney, Cy. Engr.

PHILADELPHIA, PA. — THOMAS E. O'CONNELL, of Kennett Square, has been awarded the contract to macadamize four and one-quarter miles of public road north of Kennett Square for $29,000. The work will be done under State supervision.

ERIE, PA.—The State Highway Department has awarded contract for construction of highway in Springfield Township to FRED ROBINSON, of Meadville, the lowest bidder, at $11,067. The other bidders were: South Shore Construction Co., Erie, $11,904, and John McMenany, Philadelphia, $22,508.

ALTOONA, PA.—The following bids were received Oct. 25 by Board Public Works for street paving: Guise Brick & Stone Co., Williamsport, $18,605; W. G. Stall's Sons, Altoona, $22,150; R. B. Vaughn, Altoona, $22,203; Saupp & Drew, Altoona, $22,387.

HAGERSTOWN, MD.—County Commissioners have awarded to WALTER STOUFFER, the contract to build model road from Hancock to the Pennsylvania line. Est. cost, $5,000.

ALEXANDRIA, VA.—The contract for laying a vitrified brick road on the west and south sides of the new union depot here has been let to R. A. WALLACE, of Alexandria. Mr. Wallace has also received a contract to construct a granolithic pavement on Prince and Lee Sts.

PETERSBURG, VA.—The city has issued $25,000 in bonds for street paving. Robt. Budd is Cy. Engr.

SISTERVILLE, W. VA.—The City Council has awarded the contract for paving the cemetery road to A. M. RICE for $2,000. Suburban block is to be used.

SAVANNAH, GA.—A petition is being circulated among the property owners along Gaston St., asking Council to pave that thoroughfare with asphalt.

ATLANTA, GA.—The Council has adopted resolution appropriating $5,000 for the bitulithic paving of Gordon, Lee and Park Sts.

LIVE OAKS, FLA.—Election has been called for Nov. 21 on issuing $75,000 of bonds for paving streets with brick. M. E. Broome is Mayor.

TAMPA, FLA.—The Georgia Engineering Co., of Augusta, Ga., is the lowest bidder at $1.39 a sq. yd. for proposed brick paving.

SHREVEPORT, LA.—Bids are asked until Nov. 14 for paving with asphalt or bitulithic about 1,940 sq. yds. of Fairfield Ave. C. G. Rives, Compt.; John M. Dortch, Cy. Engr.

LOUISVILLE, KY.—The BARBER ASPHALT PAVING CO. has been awarded the contract for paving a portion of Market St. with asphalt, at $1.34 a sq. yd.

CINCINNATI, O.—Bids are asked by Board Public Service until Nov. 23 for grading, curbing and paving with asphalt on Hopkins St. Geo. F. Holmes, Clk.

DELAWARE, O.—Bids are asked by F. D. King, Cy. Audr., until Nov, 30 for grading, curbing and macadamizing on Catherine St. and Pennsylvania Ave.

YOUNGSTOWN, O.—The city is considering the widening and grading of Erie St. F. M. Lillie is Cy. Engr.

NILES, O.—Bids are asked by Board Public Works after Jan. 1 for asphalt block paving, cement curbing and gutters on West Park Ave. and North Main St. Wm. Wilson, Cy. Engr.

FRANKLIN, IND.—We are informed that the contract for laying about 5,870 sq. ft. of cement walk on Jefferson St., has been let to M. HOLTZ, of Franklin, at 9 cts. Bids were opened Oct. 31 by Otis B. Sellers, Cy. Engr.

INDIANAPOLIS, IND.—The Board [illegible] Works has taken final action for cement walks in Greer St., from McCarthy to Stevens St., 2 squares; for opening and widening the first alley north of 16th St., from Capitol to Senate St., 1 square; for opening and extending first alley north of Washington St., from first alley west of Cruse St. to first alley east of Pine St., part of square; for cement walks in Wendell St., from 21st St. to Marietta drive, 1 square. Also adopted resolutions for asphalt roadway, brick gutters and curbing in 16th St., from Columbia Ave. to the L. E. & W. tracks, 3 squares; for graded roadway in the first alley east of Leslie St., from Michigan St. to the first alley south, ½ square; for cement walks and curbing in Saulcy St., from Bank to Wilmot St., 1 square; for cement walks, curbing and sodding in 17th St., from Central to New Jersey St., 1 square. M. A. Downing, Pres.

LANSING, MICH.—The Council plans to extend Hosmer St. N. Cost, $8,000. H. A. Collar is Cy. Engr.

SPRINGFIELD, ILL.—The contract for paving of Second St. from South Grand Ave. to Laurel St. west on Laurel to First St. and north to South Grand Ave., has been let to J. E. BRETZ. The contract price is $1.47 for paving and 53 cts. for curbing. Work will be commenced this fall.

CENTRALIA, ILL.—Following bids were received Oct. 31 by Board Local Improvements for paving Broadway and other streets with shale block: W. W. Hatch & Son, Goshen, Ind., $181,137; Case & Evans, Bloomington, Ill., $174,869; A. F. Franks, Jacksonville, Ill., $184,873; Ferrin & Colmon, Laclede Bldg., St. Louis, Mo., $190,263. Board Local Improvements adjourned session to Nov. 10 to consider Case & Evans' bid, which was only one below the estimate. Iowa Engineering Co., Clinton, Ia., are Engrs. in Charge. See under Contract Price.

ELGIN, ILL.—Henry Dakin, Cy. Engr., writes us that ordinances for 100,000 sq. ft. of cement concrete walks are being prepared, but contracts will not be let until spring.

BATAVIA, ILL.—We are informed that bids will be called for after Jan. 1 for paving about five blocks with brick. C. Collins, Mayor.

BLOOMINGTON, ILL.—The Board Local Improvements at its meeting held Oct. 27 voted to advertise for bids for the resurfacing of North Main St. with asphalt, from Chestnut to Seminary Ave. Elmer Folsom is Cy. Engr.

ALTON, ILL.—E. E. Rutledge, Cy. Engr., informs us that a contract will be let in about three weeks for eight miles of brick-paving. Edmond Beall, Mayor.

SPRINGFIELD, ILL.—Frank H. Hamilton, Cy. Engr., writes us that an ordinance providing for the paving of Clay St. is now before the City Council.

DES MOINES, IA.—Bids are asked by Board Public Works until 11 a. m., Nov. 16 for constructing about 8,072 sq. yds. of vitrified brick and concrete pavement on portions of four streets. W. W. Wise, Chn.; John W. Budd, Cy. Engr.

CROOKSTON, MINN.—We are advised that J. E. Carroll, Cy. Engr., is preparing plans and specifications for asphalt paving on Houston Ave., from Ash St. to Carman bridge, about 15,000 sq. yds.

ATCHISON, KAN.—Fred Giddings, Cy. Engr., advises us that proposals for paving O and R Sts. will probably be invited about end of this month.

LITTLE ROCK, ARK.—Wm. Hagan, Loftus Colamore and Jos. Saxton, comprising a board of commissioners for the improvement of Tenth St. will soon ask for bids for paving that street for a distance of 20 blocks with either brick, asphalt or bitulithic macadam.

SHAWNEE, OKLA.—The contract for paving Beard, Broadway, and Bell Sts. has been let to the OKLAHOMA BUILDING & CONSTRUCTION CO., of Oklahoma City, for $100,000.

DENVER, COLO.—Bids for the construction of state road near Canon City were opened Oct. 23 in presence of State Engineer Jaycox, County Surveyor Atherton and Commissioner Davison. The bids range from $6,850 to $18,000, the lowest being that of Foley Bros. and the highest that of S. Pruett of Victor. The contract was not awarded owing to the attitude of toll road people, who own part of the proposed right of way and want more money for their holdings than the state is willing to pay.

BRANDON, MAN.—The City Council is considering the paving of Rorser Ave. with asphalt or macadam. W. H. Shillinglaw is Cy. Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

PALMER, MASS.—The Grosvenor Woolen Mill is being increased by the addition of a main building one-story high and 100 ft. square, for the manufacture of wool extracts. A picker-house and store-house will be built, and an engine of 200 HP. and two 125 HP. boilers will be installed. Work will probably be completed by Jan. 1.

SOUTH NORWALK, CONN.—The R. & G. Corset Co. has had plans drawn for an addition to its plant. The structure will be a four-story brick building, 35 × 40 ft. John C. Wilson & Co., manufacturers of hats, will shortly commence the erection of a three-story addition to their dye house. Its dimensions will be 30 × 40 ft. Two additional small buildings will also be erected.

MERIDEN, CONN.—The Meriden Brass & Iron Works Co. is having plans drawn for an additional factory. The structure will be of brick and its dimensions 50 × 60 ft. It will be used exclusively for the manufacture of builders' hardware. The work of construction will begin in about two weeks.

LITTLE FALLS, N. Y.—Being unable to make needed enlargements without infringing upon State lands, the Adirondack Woolen Co., of Little Falls, may be moved to some New England village. Mgr. George L. Smith is looking for a location.

UTICA, N. Y.—The stockholders of the Avalon Knitting Co. have decided to increase the capital stock from $50,000 to $150,000 and enlarge the plant that the capacity will be doubled. The plans include another factory building, dye-house and bleaching plant, and the installation of 200 more knitting machines, making 450 in all.

TROY, N. Y.—The HUDSON VALLEY CONSTRUCTION CO., Times Bldg., Troy, has been awarded the entire construction contract for new brick engine house for the Burden Iron Co., of Troy, and the contract for a brick extension to present boiler house.

BUFFALO, N. Y.—Plans have been filed by the General Railway Signal Co. for a three-story office building at 1728 Elmwood Ave. at a cost of $20,000.

Plans filed by the Sidney Shepard Co. provide for the construction of a one-story brick factory at 77 Vincennes St. at a cost of $7,500, and for additions to the factory at 75 Tennessee St. at a cost of $8,500.

NEWARK, N. J.—BEAVER CONSTRUCTION CO., 11 Beaver St., Newark, have been awarded contract for electric work in new factory to be erected at Peshine Ave., Newark, for J. E. Nergott & Co. Brick, 4 stories, 56 × 200 ft. F. H. Ogden, 164 Market St., Construct. Engr.

R. Neuman Hardware Co., 9 St. Francis St., Newark, will take figures Nov. 9 on a 4-sty, 50 × 100 ft. addition to its factory. Heating system, 150 HP. of new boilers, 100 HP. engine and sprinkler system will be required.

Jas. S. Pigott, Arch., 188 Market St., Newark, is ready for bids on factory to be erected on Oliver St. Brick, mill construction, 3 stories, 60 × 100 ft.

NEWARK, N. J.—F. A. Phelps, Arch., 543 Clifton Ave., Newark, has plans in progress for factory to be erected at West New York, N. J., for Sutro Bros., 127 Spring St., New York City. Main building, brick, mill construction, 2 stories, 162 × 211 ft.; power house, 1 story, 30 × 60 ft.; stable, 2 stories, 30 × 50 ft.

ECONOMY, PA.—We are informed that a large steel frame building will be erected at Economy, Pa., for the National Metal Moulding Co. The contract has been awarded to WM. B. SCAIFE & SONS CO., 221 First Ave., Pittsburg, Pa.

LYNCHBURG, VA.—The Old Dominion Bridge & Construction Co. will be organized, with $300,000, to establish a plant for manufacturing steel bridges and other structural work. A site has been secured. A general manager of experience will be wanted, to becmoe interested financially to the extent of $20,000. Address W. L. Moorman, Box 102.

STATESVILLE, N. C.—M. W. Miller & Sons will rebuild their flour mill recently burned, at a loss of $3,000.

WINSTON-SALEM, N. C.—J. T. Jennings, 242 Main St., is in the market for complete outfit for steam bakery.

LENOIR, N. C.—The Moore Furniture Co. has been organized to operate a furniture factory. A machine room, 170 × 60 ft., and warehouse, 140 × 40 ft., both of frame, together with a brick kiln, 110 × 16 ft., will be erected. Cost, $25,000. John C. Moore is Gen. Mgr.

BESSEMER CITY, N. C.—The Gastonia (N. C.) Bottling Works will establish a plant here.

CHESTER, S. C.—The Chester Ice Co., capital $20,000, has been chartered by T. L. Eberhardt and C. P. Midgley.

SPARTANBURG, S. C.—A company which contemplates erecting a plant for the manufacture of hydraulic pressed cement building blocks is being formed in this city. Capital, $20,000. Incorporators: J. P. & E. L. Hertzog, C. R. Willard and A. L. White.

COLUMBUS, GA.—Ernest Woodruff, of Atlanta, and others, it is stated, will erect a $100,000 ice factory here.

WAYNESBORO, GA.—J. M. Edenfield, of Millen, Ga., will establish a bottling factory here.

ATLANTA, GA.—The Virginia Tin Can Mfg. Co., O. C. Hoffman, of Buchanan, Va., Pres., will establish a large plant here for the manufacture of tin cans.

TIFTON, GA.—W. J. Willingham will erect a saw and planing mill here.

RESCUEVILLE, ALA.—Brown & Rogers Bros. expect to erect a large planing mill and shingle mill to run in connection with their grist mill and ginnery.

BIRMINGHAM, ALA.—The Alabama Brewing Co. has let contracts for the enlargement of its brewery proper and refrigerating and ice-making departments. The work is to be completed during the winter and the enlarged plant will be ready for full operation in the spring. The refrigerating and ice-making plant will be enlarged to 300 tons daily. The brewery will be increased almost double its present capacity.

NEW ORLEANS, LA.—The Hobbs Mfg. Co., capital $200,000, will be organized here to establish a plant for the manufacture of tin-ware. Secretary of Board of Trade can give information.

CROWLEY, LA.—Armas Duiro desires to purchase machinery for a 10-ton ice plant.

MEMPHIS, TENN.—A site has been selected and work on the plant of the Standard Box Co. will begin in a few days. The company will have four buildings, the main factory building, storage room, finishing room and office. All buildings will be frame, covered with corrugated iron. The cost of the structures will be about $14,000.

MEMPHIS, TENN.—A $300,000 bag factory is to be erected here. B. W. Hirsch can give information.

MEMPHIS, TENN.—The erection of large veneer factory is contemplated. J. F. Peters can give information.

JOHNSON CITY, TENN.—Wyman & Co. will rebuild their planing mill recently burned.

DUCKTOWN, TENN.—It is reported that the Blue Ridge (Ga.) Bottling Works will establish a branch plant here.

MEMPHIS, TENN.—John W. Schorr, Pres., Tennessee Brewing Co., has sold his residence to the company, and the house will be torn down and other buildings erected which will greatly increase the storage and productive capacity of this company.

LOUISVILLE, KY.—The [illegible] ville Powder Storage Co. has increas[illegible] capitalization from $500 to $5,000.

EVANSVILLE, IND.—[illegible] Williams, of Shelbyville, Ind., has [illegible] a company with capital stock of $10[illegible] build a new glass factory here. Work [illegible] will begin at once.

INDIANAPOLIS, IND.—[illegible] Cones has had plans made for factory [illegible] 50 × 80 ft. Cost, $15,500.

MENOMINEE, MICH.—[illegible] Spies, Pres. M. & M. Paper Co. [illegible] rizes the statement that company's [illegible] recently burned, will be rebuilt of [illegible] stone.

WATERLOO, IA.—Fire [illegible] destroyed the plant of the Globe Box [illegible].

GALVESTON, TEX.—Fire [illegible] oyed the Hoo Hoo Planing Mill Co.'s [illegible] causing a loss of $40,000

ST. LOUIS, MO.—The Col[illegible] Box Factory at 19th and North [illegible] Sts. was destroyed by fire on Nov. 2. [illegible] loss is estimated at $175,000.

NEOSHO, MO.—The Mutu[illegible] Co. will establish a plant at Neosho [illegible] manufacture of farm wagons and o[illegible] ricultural implements. E. R. Moses, [illegible] at Bend, Kan., is Pres.

DENVER, COLO.—The Lon[illegible] Farmers Co-operative Mill & Elevator [illegible] of Longmont, Colo., will erect a flour[illegible] in Denver, to cost about $125,000. [illegible] Becker is Mgr.

ABERDEEN, WASH.—The [illegible] Crucible Steel Co. will soon commence [illegible] erection of a plant at Damon's Point, No[illegible] Beach, for the manufacture of tool steel [illegible] the black sands. S. P. Wells, of Cincinna[illegible] is Pres.; W. J. Shaw, Gen. Mgr. [illegible] stock, $100,000.

WATSONVILLE, CAL.—Wm. [illegible], of San Francisco, desires to form a [illegible] company for the purpose of establishing [illegible] ice plant here, capable of turning out six tons of ice a day.

PROVO, UTAH.—Plans are said to be under way for the construction of a beet sugar plant at Provo to cost $500,000. B. R. Smoot, of Provo, and Chas. Crabb and A. C. Pearson, of Lehi, are interested.

RED DEER, ALTA.—The Red Deer Mill & Elevator Co. has been formed for the purpose of building a flour mill and elevator. Address H. F. Hall, Lumsden, Alta., or M. MacDonald, Calgary, Alta.

TRACADIE, N. B.—The mills of the Tracadie Lumber Co. at Tracadie, which were burned a few weeks ago, with a loss of $150,000, will be rebuilt. A box mill is to be built in Machias this fall, and the machinery will include a rotary for sawing long lumber.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

FIRE ALARM SYSTEM.—San Leandro, Cal.—City Trustees are considering installation of a fire alarm system.

LEVEE WORK.—Curtis, La.—Bids are asked by T. N. Braden, Secy. Bossier Levee Board, Curtis, for building 60,000 cu. yds. levee work in Bossier Parish.

DREDGING.—New York, N. Y.—Bids are asked until noon, Nov. 27, for dredging in Tarrytown Harbor, N. Y. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

FIRE DEPARTMENT.—Live Oaks, Fla.—Election will be held Nov. 21 to vote on bonding for $5,000 for establishing and maintaining fire department. M. E. Broome is Mayor.

WHARF.—Charleston, S. C.—Bids are asked until noon Dec. 1 for building iron pile wharf at Fort Moultrie, Sullivans Island, S. C. Capt. G. P. Howell, U. S. Engrs. (Advertised, Engineering News.)

DAM.—Wheeling, W. Va.—Bids are asked until 11 a. m., Dec. 12 for building Dam No. 13, Ohio River, about six miles below Wheeling, W. Va. Major Geo. A. Zinn, U. S. Engrs. (Advertised, Engineering News.

DOCK WORK.—Duluth, Minn.—Northern Pacific Ry., according to reports, is to spend $100,000 in rebuilding dock No. 5 on Lake Ave. slip. Work will be done next spring. R. E. McFarlane, Duluth, is Supervisor Bridges and Bldgs, N. P. Ry.

WIRE.—Washington, D. C.—Bids are asked by Disbursing Officer, Signal Corps, U. S. A., care Brig.-Gen. A. W. Greeley, Ch. Signal Officer, until 2 p. m., Nov. 10, for furnishing 400 miles No. 14 G. I. wire, 300 miles buzzer wire, and 50 miles of field wire.

DREDGING.—New York, N. Y.—Bids are asked until noon, Nov. 22 for dredging in South River, Woodbridge Creek, Keyport Harbor and Shoal Harbor and Compton Creek, N. J. Col. W. R. Livermore, U. S. Engrs. (Advertised, Engineering News.)

OIL PIPE LINE.—Beaumont, Tex.—Local reports state that the NATIONAL OIL WELLS & SUPPLY CO. has been awarded contract for the 10-in. pipe to be used in laying of the pipe line from the oil wells on Caddo Lake to Shreveport, a distance of about 25 miles.

PIER WORK.—New York, N. Y.—GODWIN CONSTRUCTION CO., 60 Wall St., has secured contracts for repairing the pier and landing wharf at Swinburne Island quarantine; and for rebuilding the bulkhead at the coal plant of John S. Bush on Westchester Creek.

DOCK WORK.—Milwaukee, Wis.—Chicago, Milwaukee & St. Paul Ry., is planning to spend between $50,000 and $60,000 this winter in improving docks near junction of Milwaukee and Menominee Rivers. E. H. Barrett, Steward, Ill., is Supt. Construction, C. M. & St. P. Ry.

TUNNEL WORK.—Cincinnati, O.—The Grant tunnel on the Kentucky Division of the Louisville & Nashville R. R. W. H. Courtenay, Ch. Engr., Louisville, Ky., is to be enlarged at a cost of about $15,000, according to reports. Work includes lining tunnel with concrete.

CONDUIT MATERIAL.—Baltimore, Md.—Bids are asked by Board of Awards, care Harry F. Hooper, Cy. Register, until 11 a. m., Nov. 22 for furnishing for use of Electrical Commission, Charles E. Phelps, Jr., Ch. Engr., 1,000,000 duct ft. of conduit material and 100,000 ft. of special duct pipe.

RIVER FRONT IMPROVEMENTS.—Memphis, Tenn.—Southern Tidewater Co., capitalized at $2,500,000, recently incorporated to mine and sell coal, will, it is stated, expend $50,000 on the river front for property and improvements. John Tevis, Louisville, Ky.; M. F. McGehee, Memphis, Tenn., and A. J. Campbell, Collierville, Tenn., are interested.

CABLES.—Buffalo, N. Y.—Robertson Electric Co. was only bidder last week for supplying and placing cables to utilize space reserved for the city under franchise granted to the Niagara Falls Power Co. and the Niagara Falls Hydraulic & Manufacturing Co. on Dec. 2, 1895. The bids were $82,748 and $57,641, the last bid being an alternate one. F. G. Ward is Comr. Pub. Wks

DREDGING.—Philadelphia, Pa.—Bids are asked by Department Public Works, A. Lincoln Acker, Dir., until noon, Nov. 24 for dredging in Delaware River, for deepening and improving channel, between this city and Delaware Bay. The work includes about 4,591,000 cu. yds. dredging, and the total amount to be expended is $750,000. Specifications may be seen at office of Engineering News. (Advertised, Engineering News.)

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Dec. 5, for furnishing a quantity of machine tools, as follows: Schedule 220, emery grinding machine, lathe, molding machine, pipe-cutting machine, shaper; schedule 221, band sawing machines, canter pattern machine, cut-off saw, ripsaw; schedule 222, planer, pneumatic drills, grinders, drills, metal and scroll saws, steam and power hammers, centering machine, gap lathe, milling machine. H. T. B. Harris, Paym. Gen. U. S. N.

DREDGING.—New Orleans, La.—As was stated in our last week's issue, bids are being taken by Capt. J. F. McIndoe, U. S. Engrs., for dredging a channel near west shore of Sabine Lake and for constructing creosoted wooden revetment. This work is in connection with the construction of the Sabine Lake channel, which is to be 100 ft. wide, 9 ft. deep and about 15 miles long; present depth of water is from 1 ft. to 4 ft. About 2,923,000 cu. yds. excavation and about 5,200 lin. ft. creosoted wooden revetment will be necessary. It is proposed to expend about $500,000, of which $120,000 is now available.

PIER.—Baltimore, Md.—Engineering Department Baltimore & Ohio R. R., D. D. Carothers, Ch. Engr., Baltimore, has sent out plans for a pier to be built at Locust Point. It will be about 935 ft. long and 160 ft. and will cost about $75,000. It will be constructed of oak and pine piling, upon which will be placed concrete footings, supporting the iron columns for the building, which will be two stories high and of very heavy construction. The building will contain electric lights, steam heating and other modern improvements, including steel rolling doors at all openings. Estimates are to be submitted to W. Ancker, Supt. Floating Equipment, Baltimore, at noon, Nov. 13.

FILLING, ETC.—Jersey City, N. J.—Central R. R. of New Jersey, J. O. Osgood, Ch. Engr., Jersey City, has awarded contract to W. A. TAYLOR, Jersey City, for filling in swamp lands on south side of its tracks in Communipaw between Phillip St. and New York Bay. Mr. Osgood is stated to have prepared plans of improvements in the Communipaw yards to be made at a cost of $1,500,000. Swamp lands and shallow shore front will be filled in for the extension of the railroad yards and water front. Dredging has been begun and the excavated mud is carried back and dumped to fill in. A bulkhead will be built toward Black Tom, piers constructed and tracks laid to the piers.

ELECTRIC EQUIPMENTS.—Washington, D. C.—Following bids were opened Oct. 31 at the Navy Department, for elevating electrical equipments and rammer electrical equipments; (1) General Electric Co.; (2) Thresher Electric Co.: Four 12-in. elevating electrical equipments and four 12-in. rammer electrical equipments, for delivery at the yards of the Newport News Shipbuilding Co., Newport News, Va., (1) $13,500; (2) $12,280. Eight 10-in. elevating electrical equipments, and eight 10-in. rammer electrical equipments, four sets of each to be delivered at the works of Wm. Cramp & Sons, Philadelphia, and four sets of each at the works of the New York Shipbuilding Co., Camden, N. J., (1) $7,000, (2) $5,880. Twelve 12-in. elevating electrical equipments, and twelve 12-ing rammer electrical equipment, to be delivered 4 sets each at each of following: Fore River Shipbuilding Co., Quincy, Mass.; New York Shipbuilding Co., Camden; Newport News Shipbuilding & Dry Dock Co., Newport News, (1) $10,500, (2) $8,820.

FLUSHING TUNNEL.—Brooklyn, N. Y.—Bids are asked by Martin W. Littleton, Pres. Brooklyn Borough, Brooklyn, N. Y., until 11 a. m., Nov. 15, for furnishing labor and materials required for constructing a flushing tunnel and intake and appurtenances, for the improvement of the sanitary condition of the Gowanus Canal in Degraw St., from East River to Hoyt St.; Hoyt St. from Degraw St. to Butler St.; Butler St., from Hoyt St. to Gowanus Canal. The work includes the following: 6,270 lin. ft. flushing tunnel; 8,200 cu. yds. additional brick masonry around flushing tunnel, built in tunnel construction; 3,100 cu. yds. additional concrete masonry around flushing tunnel, built in tunnel construction; 1,630 cu. yds. concrete masonry in and about intake and outfall; 4,500 cu. yds. excavation in and about intake and outfall; 8,500 lin. ft. bearing piles; 1,250 lin. ft. fender piles; 113,000 ft. B. M., temporary sheet piling; 182,000 ft., B. M., permanent sheet piling; 280,000 ft., B. M., foundation planking; 20,000 ft. B. M., pile capping; 240,000 ft. B. M., sheeting and bracing. The total cost of the improvement is estimated at about $750,000.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

RAILROAD WORK.—Cuba.—A correspondent in Havana writes us that SNARE & TRIEST, 143 Liberty St., New York, have secured the contract for the Hoyo Colorado extension of the Marianao R. R. J. M. CLARK, of Havana, representative of Czarnkow, MacDougall & Co., Ltd., New York, secured the contract for the material. The new line, work on which is to be rushed, will be of immense value to fruit shippers. Snare & Triest are also doing extensive work for the United Railroads in building a dock at Regla.—A committee representing the interests of the United Railroads and the Cardenas & Jucare Road, which latter has lately been bought out by the former, has sailed from Havana bound for New York en route to England. The committee is going to London a make a report of the meeting recently held here, in which the United road secured the rights to the other. It is proposed to build an addition to the road and orders for new cars and rolling stock are being sent out. The committee consists of General Manager George Orr, of the United Railroads, with Secretary Antonio Bustamente and R. Arguelles, formerly President of the Cardenas & Jucare Road.

WHARVES.—Hawaii. — Preliminary plans have been prepared for new wharves at Honolulu; it is proposed to dredge one-half of Slip No. 2, at the foot of Kilauea St. The second wharf, immediately adjacent to the naval docks, will also be constructed providing sufficient funds are available. C. S. Holloway is Supt. Pub. Wks., Honolulu.

CARS, CAR SHOPS, ETC.—Cuba.—Havana Central Electric Ry. Co. has placed an order with the Wason Mfg. Co., Springfield, Mass., for 30 steel cars, similar to those used in the New York Subway. A contract for ten 40-ton electric locomotives for freight hauling was placed with the American Locomotive Co. and the General Electric Co. An order for 18,000 tons of steel rails was placed last July with the Lackawanna Steel Co. The railway company will construct its own car shop later on.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

PAVING.—Saltillo.—The municipal government here is having sample blocks of asphalt and brick paving put down here with the view of determining which is the better. All of the principal streets are to be paved with whichever material is selected.

WATER-WORKS, SEWERS. — Parral. — Governor Enrique C. Creel, Chihuahua, visited this city Oct. 28, to pass upon the plans of O'Brien & Rhodes, Engrs., for the construction of a new water supply and sewer system for this city. The cost of the two systems will be about $350,000.

RAILROAD EXTENSION. — Chihuahua.—Chihuahua & Pacific R. R., C. L. Graves, Gen. Mgr., Chihuahua, according to reports, is to be extended to the Pacific coast, with a terminus at Topolobampo. It is also planned to ultimately extend the road eastward from Chihuahua to a connection with the Southern Pacific in Texas.

RAILROAD EXTENSION. — Durango. — Descubridora Mining Co., which owns the Descubridora copper mine, in the State of Durango, and the railroad which runs from Conejos Station on the Mexican Central R. R. to the mine, is preparing to make a 40-mile extension of the railroad from Conejos to Inde in that state. J. F. Stone, representing the company, has been making an investigation of the matter with the view to beginning the construction of the proposed extension at an early date.

RAILROAD.—La Piedad.—Albert J. Peyton, an American who obtained a concession from the Mexican Government to build a railroad from La Piedad to Tacambaro, with a branch line from Puruandiro to Irapuato, has obtained an extension of time in which to build the road. Under the modified concession the road must be completed by Oct 30, 1911. Mr. Peyton is now in New York arranging the details of the project, preparatory to beginning the work of construction. It is stated that the money necessary to insure the building of the road has been raised.

WATER-WORKS. — Ciudad Juarez.—Bids were opened Oct. 24, by this city, S. Montemayor, Mayor, for constructing water-works, contracts being awarded as follows: KETELSEN & DEGETAU, Chihuahua and Juarez, furnishing 9,020 meters of pipe; RICHARD KEAYS, El Paso, Tex., and Juarez, installing system; SCOTT-RANKIN CO., El Paso, Tex., pump and electric motors. All bids for steel tank and tower were rejected, and city will either call for bids again for this part of the work, or will let a private contract The works are to be of sufficient capacity to supply a population of 7,000

CEMENT PLANT.—Dublan, Hidalgo.—The Mexican Portland Cement Co. will double the capacity of its cement plant, situated at this place. It will erect new kilns, laboratories, houses and install a large amount of new machinery. The output will be increased from 600 tons per month to 1,200 or 1,500 tons per month. The electric power which the company will use will be supplied by the Electric & Irrigation Co., of Juando. The power will be transmitted over copper wire for 23 kilometers to Dublan. At present all of the cement made by this company is used by Messrs. Pyro & Pimentel, extensive contractors, who own a controlling interest in the company.

IRRIGATION AND POWER.—City of Mexico.—Following applications have been received by Department of Formento for water rights for irrigation and power development purposes: Luis Gomez Daza and Joaquin Pita use the waters of the river Tomatlan (San Pedro) in the district of Zacatlan, Puebla, for motor power; Albert Stein, representing the Yaqui Copper Co., to utilize a maximum of 340,000 liters of water per minute from the Yaqui River for motive power; Norberto Dominguez and Luis Sotomayor, to make use of the waters of the river San Pedro, a tributary of the Conchos, in the district of Comargo, Chihuahua, for irrigation and industrial purposes; Diego Red, for the use of the waters of the river San Lorenzo, in the district of Culiacan, Sinaloa, between Quila and Alcardia.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

RAILWAY.—Chile.—Bids will be opened in Santiago, Chile, Jan. 2, 1906, for construction of railway, of one meter track, from Arica Port (Chile) to La Paz (Bolivia). (Advertised Engineering News.)

ELECTRIC PLANT.—France.—The Societe nimoise d' eclairage et de force motrice par l' electricite (Electric Light & Power Co., of Nimes) has been formed at Nimes, rue Pavee, 11-15. The capital has been fixed at $100,000.

COPPER MINES.—Algeria.—Jean Moncelon, of Arba, has solicited a concession of the lead, zinc, copper and other metal mines on the territory of the Commune of Rovigo, Department of Alger.

RIVER WORK, WAREHOUSES.—Servia.—The Servian Government shall shortly be open to receive offers for the work in connection with the protection of the banks of rivers and the construction of warehouses. The cost of the former is set at $1,600,000, and the latter at $400,000.

MINING.—Madagascar.—Societe des Mines d' or de Soavinarivo is the name of a limited company which has just been formed at Paris, France, for the purpose of working an auriferous concession in the province of Vakinankaratra (Betsileo, Madagascar). The capital has been fixed at $260,000. The following form the first Board of Directors: Theodore Mante, Victor Thiebaut, Charles Roux, Daleas, de Matharel et de La Fontaine.

RAILWAYS, QUAYS, ETC.—Bulgaria.—The Bulgarian Ministry of Public Works proposes to ask for authorization for a scheme of local railways, quays in the riverside towns of the Danube, docks at Varna and Bourgas, and port works at Baltchik. In addition, the Government will in 1906 invite bids for the construction of the remainder of the Trans-Balkan line.

STEEL DOCK.—Chile.—Bids are being asked for the construction in Chile of a floating steel dock to raise vessels of 1,000 tons displacement, and to be installed in the Naval Dockyard at Talcahuano. Bids must be sent in by May 1, 1906, to the "Direccion del Material," Valparaiso, where full information may be obtained.

ELECTRIC PLANT.—Brazil.—Bids will be opened Dec. 16 at the offices of the Municipality, Sao Luiz, Maranhao, Brazil, for the installation of an electric lighting system in that town.

PUBLIC WORKS.—Argentina. — Municipality of Buenos Aires proposes to negotiate a loan of about $40,000,000. It is stated that after the actual municipal debt is paid off, about $25,000,000 of this sum will be available for other purposes, and will be used for the following public works: North to South Ave.; construction of municipal building and municipal markets; canalization of the Maldonado and Medrano streams, and draining the low ground in Flores and the Boca; purchase and installation of ovens for the cremation of refuse; works in the Liniers slaughter yards; workmen's houses; hospitals; expropriations and finishing the Colon theatre.

WATER SUPPLY.—Greece.—The U. S. Consul at Athens reports that experts for a British firm have been in Greece making surveys and plans, with a view to furnishing the city with an adequate water supply. It is proposed to bring water from an almost inexhaustible supply at Stymphalia, about 88 miles from Athens. The English company expects to be able to submit its plans to the Greek Government by November. It is estimated that about $5,000,000 will be required to carry out this scheme. The U. S. Consul also states that the Ministry of Justice is considering the feasibility of appropriating the $285,000 left to the State by the banker Singros for philanthropic purposes to the building of up-to-date prisons. If this is done, one of these prisons will be erected near Athens, at a cost of about $1?9,000. and seven others in various smaller cities of Greece, at a cost of about $17,000 each.

WATER POWER DEVELOPMENT. — Sweden.—A company, to be known as the "Sydsvenska Elektriska Aktiebolaget," is to be incorporated, and proposes to buy real estate and waterfalls and erect plants for the production, distribution and use of electric power, and allied branches of business. The seat of the board of directors will be the city of Halmstad. The minimum capital stock will be $938,000 and the maximum $2,680,000. A plan to utilize the water power of the river Lagan has been worked out. The plan is that the company shall, to begin with, purchase the unused waterfalls in the river Lagan, and build seven power stations there. Smaller operation plan includes ten larger places to which electric power is to be transmitted. According to this smaller plan, which is to be carried out first, the transmissions, with branch lines, will be 186 miles long and capable of distributing 13,000 HP. When complete plans have been carried out the last-named figures will be doubled. For carrying out the small plan, the cost is calculated to be $2,760,400, but the larger system will cost about $1,072,000 more. The specifications for the sum first mentioned are as follows: For water-works buildings, $911,200; for machinery, $402,000; for transmission cables and wires, $482,400; and for regulating the access and supply of water, $268,000. It is intended to make the price of the electric power so low that the same can compete with the cheapest motive power obtained in any other manner, and as soon as certain contracts with the communities named have been signed the work can begin. It is considered that the negotiations and the work on the different power plants will take two years before any power can be distributed.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*JETTY.—Washington, D. C.—Following bids were opened Nov. 1 by Lt. Col. R. L. Hoxie, U. S. Engrs. Corps, for the construction of a jetty at Carter's Creek, Va.: (1) 1,100 cu. yds. of oyster shell hearting, (2) 1,000 cu. yds. quarry stone or concrete block covering: ABBOT-GAMBLE CO., NEW YORK, (1) $3, (2) concrete block, $11.40; Richard Parrott, Newburgh, N. Y., (1) $3, (2) concrete block, $12; Ernest L. Minor, Washington, (1) $2, (2) stone or concrete $15.

*CEMENT.—Denver, Colo.—Following bids were opened Nov. 1 by U. S. Reclamation Service, C. E. Wells, Supervising Engr.; C. H. Fitch, Supervising Engr.; and John E. Field, District Engr., for furnishing 10,000 bbls. Portland cement for Interstate Canal, North Platte Project, Nebraska: Portland Cement Co., Denver, Colo., f. o. b. Denver, $1.59 per bbl.; freight to Wyncote on Government b/1, $.608; cost delivered at Wyncote, Wyo., $2.198, cement to be shipped by Government b/1; proposal informal, based on ½ rate class C from Denver to point of delivery, or $1.40 per bbl. f. o. b. Portland, Colo. Illinois Steel Co., Chicago, Ill., f. o. b., Chicago, $1.30 per bbl.; freight to Wyncote, Wyo., on Government b/1; cost delivered, Wyncote, Wyo., $2.6452; to be shipped on Government b/1; proposal informal based on price f. o. b. Chicago. Western States Portland Cement Co., Jackson, Mich., f. o. b. stations between Torrington and Whalen, $3 per bbl.; cost delivered at Wyncote, Wyo., $3. Sunderland Bros., Omaha, Neb., f. o. b. stations between Torrington and Whalen, $3.25; cost delivered at Wyncote, Wyo., $3.25. Wm. Parr & Co., Galveston, Tex., f. o. b. stations between Torrington and Whalen, $3.85; cost delivered at Wyncote, Wyo., $3.85.

BLOCK PAVING.—Centralia, Ill.—Bids were opened Oct. 31 by Board Local Improvements, Iowa Engineering Co., Clinton, Ia., Engrs. in Charge, for paving Broadway and other streets with shale block for a width of 44 ft. and 30 ft.; thickness of wearing coat is 4 ins.; foundation is to be of limestone concrete, 5½ ins. thick, and curb is to be of sandstone, 4 ins. × 20 ins. and 4 ins. × 18 ins.; the guarantee is for three years. The Board Local Improvements is to meet Nov. 10 to consider lowest bid, which was only one below the estimate. The bid of W. W. Hatch & Son of $1.56 for the paving was for Albion, Ill., blocks; if Springfield, Ill., blocks are used add 3 cts., for Indiana block add 8¾ cts., for Terre Haute block add 10 cts., for Clinton, Ind., block add 10 cts., for Athens, O., block add 16 cts., for Barr, Ill., block add 9 cts., for Culver, Ind., block add 10 cts. The bid of Case & Evans was for Culver, Ind., block. The bids received were as follows: (1) W. W. Hatch & Son, Goshen, Ind.; (2) Case & Evans, Bloomington, Ill.; (3) A. F. Franks, Jacksonville, Ill.; (4) Ferrin & Colmon, 615 Laclede Bldg., St. Louis, Mo.:

Bids Received at Centralia, Ill., October 31, 1905, by Board of Local Improvements, for Paving Broadway and Other Streets, with Shale Block.

Items.	Quantities.	(1)	(2)	(3)	(4)
Earth excavation	33,688 cu. yds.	$0.27	$0.30	$0.25	$0.47¼
Embankment	766 "	.10	.10	.10	.47¼
Paving	94,631 sq. yds.	1.56 (a)	1.49 (b)	1.56	1.60
Curb, 4-in. x 20-in	50,139 lin. ft.	.46	.45	.55	.42
Stone headers, 4-in. x 18-in	2,549 "	.45	.40	.35	.50
White oak headers	5,170 ft., B.M.	.02½	20.00 per M.	.10	30.00 per M.
Totals		$181,137	$174,869	$184,873	$190,263

CIVIL SERVICE EXAMINATIONS

ELECTRICAL INSPECTOR.—U. S. Civil Service Commission, Washington, D. C., will hold an examination Nov. 29, at various places throughout the country, to secure eligibles from which to make certification to fill a vacancy in the position of electrical inspector in the Quartermaster's Department at Large, at $1,500 per annum, and vacancies as they may occur in any branch of the service requiring similar qualifications.

DRAFTSMAN.—U. S. Civil Service Commission, Washington, D. C., will hold an examination Dec. 6, at various places throughout the country, to secure eligibles from which to make certification to fill vacancies in the position of mechanical draftsman under the Isthmian Canal Commission on the Isthmus of Panama, as they may occur, at salaries ranging from $1,200 to $1,800, but usually $1,500, per annum.

INDUSTRIAL NOTES.

THE WESTERN ELECTRIC CO., of Chicago, is already planning the extension of its new shops at Hawthorne.

THE THOMSON METER CO., of Brooklyn, N. Y., states that up to November 1, 1905, 283,152 water meters have been sold.

THE NEVADA CONSOLIDATED COPPER CO. has closed a contract with the Allis-Chalmers Co. for a battery of six large sized McDougall roasting furnaces, each with six hearths.

THE BRODERICK & BASCOM ROPE CO., of St. Louis, Mo., informs us that it has opened a branch office in New York City.

AN INTERNATIONAL EXHIBITION in New Zealand will be held at Christchurch, N. Z., in November and December, 1906, and January, February, March and April, 1907, under the auspices of the government.

THE AMERICAN LOCOMOTIVE CO., New York, during the past week has placed the third order for fireproofed wood with the Electric Fireproofing Co., of New York, which material is being used in the construction of electric locomotive cabs that are now being built for the N. Y. C. & H. R. R. R.'s suburban service.

THE WESTINGHOUSE, CHURCH, KERR & CO., New York, has just placed their second order for fireproofed wood with the Electric Fireproofing Co., of New York, which material is being used in the construction of fuse houses that are being built and located along the lines of railroads equipped by their electric installation.

THE ENDURITE CONSTRUCTION CO., 1008 Marquette Building, Chicago, is introducing a material termed Endurite, for floors tiling, stairs, roofing, pipe insulation, etc. It is cast in blocks of any desired shape or color (with a highly glazed surface if cast on a glass surface), and is claimed to be both fireproof and waterproof. Mr. Dion Geraldine is Vice-President and Secretary of the company.

THE PENNSYLVANIA R.R. Co. has very recently placed an order with The Westinghouse Machine Co. for six 132 × 26 ft. grate and four 100 × 20 ft. grate Roney mechanical stokers to extend their equipment at Altoona. Two new boiler plants were erected at Altoona only a few years ago for supplying steam power at the Altoona shops. These plants were both equipped throughout with Roney mechanical stokers.

THE COOK RAILWAY APPLIANCE CO., of Kalamazoo, Mich., is the new name of the old Merrill-Stevens Mfg. Co., handling jacks, cattleguards and track tools. Recently the name was changed to the Standard Railway Appliance Co., but as many other similar companies have titles very similar to this, it was found desirable to make a second change, as above. No change has been made in the management of the business.

THE EUREKA CHEMICAL CO., of Newark, N. J., have secured the contract, and are furnishing its anti-rust coating Eureka Metal Paint, for all the steel work in the Title Guarantee & Trust Co.'s new building, now being erected on Broadway, just above Maiden Lane, for which Thompson-Starrett Co. has the general contract. This is the same paint that was furnished for the New York Stock Exchange and Chamber of Commerce Buildings by the Eureka Company.

THE YAMPA SMELTING CO. has just closed a contract with the Allis-Chalmers Co. for six McDougall furnaces, to be installed in the Salt Lake City plant. The furnaces are of the standard Klepetke-McDougall type, but with all the latest improvements in details. Each furnace will have six superimposed hearths, each with its sets of rabble arms and rakes. The furnaces are all of large size, measuring 18 ft., outside diameter.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 162.

BRIDGES.

Reading, Pa.

Proposals for the construction of three county bridges will be opened Nov. 15, 1905, at 10 a. m. Specifications are on file in the Commissioner's office in Reading, Pa.

H. F. LIVINGOOD,
County Controller.
19-1t

BRIDGE FLOORING.

Springfield, Mass.

Sealed bids for furnishing the material and laying a wooden floor system upon the bridge over the Connecticut River between Chicopee and West Springfield, will be received by the County Commissioners of Hampden County at the Court House, Springfield, Massachusetts, until 12 o'clock M. November 15, 1905.

The work consists in furnishing the material and laying a wooden floor consisting of hard pine wooden stringers and 2-inch hard pine planking for the sidewalk, and for the roadway, a flooring according to either one of the designs.

Plans, specifications and form of contract can be seen at the office of the Clerk of Courts, at the Court House, Springfield, Mass.

The Commission reserves the right to reject any or all bids, and to award the contract as it deems for the best interest of the County of Hampden.

By order of the County Commissioners.

ROBERT O. MORRIS,
Clerk.

GEORGE F. SWAIN,
Consulting Engineer. 19-1t

PROPOSALS FOR CONCRETE RIVER WALL.—U. S. Engineer Office, Chattanooga, Tenn., Oct. 9, 1905.—Sealed proposals for constructing concrete river wall at Colbert Shoals, Tennessee River, Ala., will be received until 11 a. m., standard time, Nov. 20, 1905, and then publicly opened. Information furnished on application. H. C. NEWCOMER, Major, Engineers. 15-2t 17-2t

WATER-WORKS.

Hammond, La.

The Mayor and Board of Aldermen of the town of Hammond, La., will receive bids for the construction of a water works, at the Mayor's office in the town, until 2 p. m., December 6, 1905, where they will be publicly opened.

Each bid must be accompanied by a certified check equal to 5% of the offer as surety that the contract will be entered into with a surety company bond equal to 50% of the amount.

The right is reserved to reject any and all bids.

For Synopsis of the Specifications, Instructions to Bidders, and Form of Proposal address the Clerk.

JAMES B. ADAMS, Town Clerk.
Hammond, La.

C. H. JENKS, Engr.
Fayette, Miss. 19-4t

Plans and specifications may be seen after Nov. 15 at the Chicago office (Monadnock Block) of the Engineering News.

SEWERS.

Shreveport, La.

Proposals for constructing approximately 12,000 feet of 8 and 10-in. vitrified pipe and cast-iron sewers in cuts varying from 6 to 30 feet will be received by the Shreveport Water-Works Company, Shreveport, La., until noon, Friday, November 24th, 1905.

Profiles and specifications may be seen, and specifications, form of contract, bond and bid obtained at the office of J. H. Purdy, General Manager, 1200 Bank for Savings Building, Pittsburg, Pa., or at the office of the Shreveport Water-Works Company, Shreveport, La.

Certified check for $500.00, payable to the Shreveport Water-Works Company, must accompany each bid as a guarantee that the bidder will enter into contract and furnish required bond within ten days from receipt of notice that contract has been awarded bidder.

Bids will be opened at once in the presence of bidders, and all checks, except those of successful bidders, will be returned immediately after the award is made. 19-2t

ARICA—LA PAZ RAILWAY.

On January 2, 1906, bids will be open in Santiago, Chile, for the construction of a railway, of one-meter-track, from the Arica Port (Chile) to La Paz (Bolivia). 19-7t

GARBAGE CREMATORY.

Office of City Clerk,
Grand Rapids, Mich., Nov. 6, 1905.

Sealed proposals will be received at this office till five o'clock in the afternoon of Monday, November 27, 1905, for the construction of an eighty (80) ton garbage crematory. Each bid must be accompanied by a certified check in the sum of Five Hundred Dollars as a guarantee that a contract will be entered into in accordance with the terms of the proposal made.

Specifications and additional information may be received upon application to the City Clerk or the Board of Health.

JOHN L. BOER,
City Clerk.
19-3t

SIX MILLION DOLLARS

LOST

by not advertising contracts in ENGINEERING NEWS. In Major Gillette's report on the Philadelphia Filtration Plant, he says:

"There was no advertising for this large contract in any of the engineering journals, where contractors look for such notices."

Are you going to lose money by failing to secure adequate competition? ENGINEERING NEWS reaches more contractors than any other engineering weekly. The rate for proposal advertising is $2.40 per inch—nothing compared to the saving that may result.

ENGINEERING NEWS

220 Broadway, New York

TO IRON FOUNDERS.

Department of Public Works,
Commissioner's Office, City Hall,
Providence, R. I., November 9, 1905.

Sealed proposals will be received at this office until eleven o'clock a. m., Thursday, November 16, 1905, for furnishing and delivering at the City Yard, the following sizes of

CAST IRON WATER PIPES:

5,417 tons of 2,240 pounds, [illegible] inches in diameter;

16 tons of 2,240 pounds, [illegible] inches in diameter;

200 tons of 2,240 pounds, [illegible] inches in diameter;

192 tons of 2,240 pounds, [illegible] inches in diameter;

230 tons of 2,240 pounds, [illegible] inches in diameter;

406 tons of 2,240 pounds, [illegible] inches in diameter;

273 tons of 2,240 pounds, [illegible] inches in diameter;

9 tons of 2,240 pounds, 4 inches in diameter.

The delivery of the pipes shall be as follows: All sizes under 30 inches shall commence on or before March 1, 1906, and continue as rapidly as required and be fully completed on or before May 1, 1906. The 30 inch and 42 inch shall commence on or before March 1, 1906, and continue in such order and as rapidly as required and be fully completed on or before September 1, 1906.

A bond satisfactory to the Commissioner or a certified check in the sum of $10,000 as liquidated damages for failure to execute the contract within ten days, if awarded, will be required of each bidder; and a satisfactory bond in the sum of $35,000 conditioned upon the faithful fulfilment of the contract will be required of the successful bidder.

Specifications, forms of contract and of proposal may be obtained upon application at this office.

The right to reject any or all proposals is reserved.

WALTER F. SLADE,
Commissioner.
19-1t

PROPOSALS FOR SHOP, MACHINERY, LATHES, PLANERS, SAW AND TIMBER DRESSING MACHINE, DRILLS, ENGINE, ENGINE INDICATORS, PRESSURE GAGES, LIGHTS, SHEET STEEL, WIRE NAILS, SURVEYORS' PROTRACTORS AND CHAINS, BLUE PRINTING FRAME, SAFES, LAMPS, IRON PAILS, MILK CANS, POLICE WHISTLES, DISHES, KITCHEN UTENSILS, KNIVES, FORKS, SCALES, ETC. Office, Isthmian Canal Commission. Washington, D. C., November 9, 1905. Sealed proposals, in triplicate, will be received at the office of the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M., November 24, 1905, at which time they will be opened in public, for furnishing the above mentioned articles. Blanks and full information may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City, and Custom House, New Orleans, La.; 36 New Montgomery Street, San Francisco, Cal., and 419 Chamber of Commerce Building, Tacoma, Wash.; also from Chief Quartermaster, Department of the Lakes, Chicago, and Commercial Club, Mobile, Ala. D. W. ROSS, General Purchasing Officer. 19-2t

SITUATIONS OPEN

MECHANICAL AND SELLING ENGINEER, general contract work. New York State trade. State particulars and salary. Address "G. A. 19," Engineering News, New York. 19-1t

DRAFTSMEN WANTED: Those preferred who have had some years experience on heavy machinery. Good wages to competent men. Give experience in full. Drafting work will be done at the plant, Stewartsville, N. J. Draftsmen live in Easton, Pa. Transportation by D. L. & W. trains; fare 5c. each way. State wages wanted. Address Edison Portland Cement Co., Stewartsville, N. J. 19-1t

DRAFTSMAN WANTED in a mill engineers office experienced in structural steel designing and detail, as well as general construction work, such as brick, timber and concrete. A man who is capable of checking up all classes of drawings. Address "F. A. 19," Engineering News, New York. 19-1t

DRAFTSMEN.—Wanted five or six structural draftsmen who have had experience in design of steel work of buildings; also two or three draftsmen experienced in masonry and steam railroad track work. WESTINGHOUSE CHURCH KERR & CO., Room 701, 10 Bridge Street City. 19-1t

FOR SALE

DIVER'S APPARATUS

Complete and in first-class condition. Cheap.

H. H. ROGERS, 61 East 25th St., New York City
19-1t

Suppleme

CONSTRUCTIO
Plans and
List of Co
Railways
Electric R
Light and
Bridges
Buildings
Water Sup
Sewerage
Garbage D
Streets an
Manufactu
Contract
Miscellane
READERS' V
INDUSTRIAL
TRADE PUB
PROPOSALS

PLANS A

The followi
ding Sheets
gineering N
York:

Bids
close.

Nov.
18—Undergr
18—Wireless
20—Electric
*24—Dredgin
25—Drainag

Dec.
*2—Drill ha
2—Concret
2—Concre
*5—Dam..
9—Electric
* —Steel r

Jan.
*2—Water
*12—Sewer

*Work ad

NOTE—W
bidding she
work for
contractors
If more set
distribute
the work i
the plans
tisement w

LIS

Bids close.

L

Nov. 20. El
Nov. 20. El
Nov. 27. El
Dec. 2. Li
Ad
Dec. 2. W
Ad
Dec. 16. El
Dec. 18. C
A

Nov. 20. B
Nov. 20. B
Nov. 20. B
Nov. 21. B
Nov. 22. B
Nov. 24. B
Nov. 24. B
Jan. 1. B
Jan. 1. B
Jan. 23. B